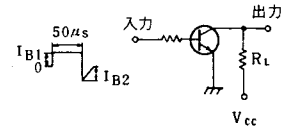


注1. $T_c = 25^\circ\text{C}$. 注2. A.C. 1分間。

型 名	最 大 定 格 ($T_c = 25^{\circ}\text{C}$)												電 氣 的 特 性										
	V_{CE0}	$V_{CE0(SUS)}$	V_{EBO}	I_C	I_{CP} (1ms)	I_B	I_F	I_{FW} (1ms)	P_C (注1)	T_J	T_{JL}	$V_{I_{AO}}$ (注2)	I_{CBO} (mA)	V_{CB} (V)	I_{EBO} (mA)	V_{EB} (V)	$V_{CE0(SUS)}$		h_{FE}		V_{CE}	I_C	
	(V)	(V)	(V)	(A)	(A)	(A)	(A)	(A)	(W)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)	(V)	最大	最小	最大	最小	最小	最大	最小	最大	(V)	(A)	
	(V)	(V)	(V)	(A)	(A)	(A)	(A)	(A)	(A)	(W)	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)	(V)	最大	最小	最大	最小	最小	最大	最小	最大	(V)	(A)
MG75M2CK1	1000	1000	7	75	150	7.5	75	150	400	150	-40~125	2500	2.0	1000	200	7	880	1.0	100	5	75		
MG75M2YK1	1000	1000	7	75	150	7.5	75	150	400	150	-40~125	2500	2.0	1000	200	7	880	1.0	100	5	75		
MG75Q2YK1	1200	1200	7	75	150	7.5	75	150	400	150	-40~125	2500	2.0	1200	200	7	900	1.0	100	5	75		
MG80S2YK1	1400	1400	7	80	160	8.0	80	160	800	150	-40~125	2500	4.0	1400	300	7	1000	1.0	100	5	80		
MG100G2CL1	600	600	6	100	200	10	100	200	400	150	-40~125	2500	2.0	600	200	6	450	0.5	100	5	100		
MG100G2YL1	600	600	6	100	200	10	100	200	400	150	-40~125	2500	2.0	600	200	6	450	0.5	100	5	100		
MG100H2CK1	600	600	7	100	200	5.0	100	200	400	150	-40~125	2500	1.0	600	200	7	550	0.5	200	5	100		
MG100H2CL1	600	600	6	100	200	15	100	200	400	150	-40~125	2500	1.0	600	200	6	550	0.5	80	5	100		
MG100H2YL1	600	600	6	100	200	15	100	200	400	150	-40~125	2500	1.0	600	200	6	550	0.5	80	5	100		
MG100M2CK1	1000	1000	7	100	200	10	100	200	700	150	-40~125	2500	4.0	1000	400	7	880	1.0	100	5	100		
MG100M2YK1	1000	1000	7	100	200	10	100	200	700	150	-40~125	2500	4.0	1000	400	7	880	1.0	100	5	100		
MG100Q2YK1	1200	1200	7	100	200	10	100	200	700	150	-40~125	2500	2.0	1200	400	7	900	1.0	100	5	100		
MG150G2YL1	600	600	6	150	300	20	150	300	700	150	-40~125	2500	2.0	600	200	6	450	0.5	100	5	150		
MG150H2CL1	600	600	6	150	300	20	150	300	700	150	-40~125	2500	2.0	600	400	6	550	0.5	80	5	150		
MG150H2YL1	600	600	6	150	300	20	150	300	700	150	-40~125	2500	2.0	600	400	6	550	0.5	80	5	150		
MG150M2CK1	1000	1000	7	150	300	15	150	300	800	150	-40~125	2500	8.0	1000	400	7	880	1.0	100	5	150		
MG150M2YK1	1000	1000	7	150	300	15	150	300	800	150	-40~125	2500	8.0	1000	400	7	880	1.0	100	5	150		
MG150M2YK2	1000	1000	7	150	300	15	150	300	800	150	-40~125	2500	4.0	1000	400	7	880	1.0	80	5	150		
MG150Q2YK1	1200	1200	7	150	300	20	150	300	800	150	-40~125	2500	4.0	1200	400	7	900	1.0	100	5	150		
MG200H2CK1	600	600	7	200	400	10	200	400	800	150	-40~125	2500	2.0	600	400	7	550	0.5	200	5	200		

■スイッチング時間測定回路

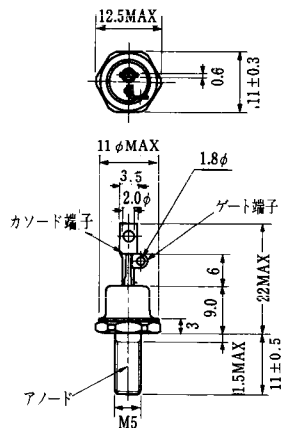


繰り返し周期 = 0.5 %

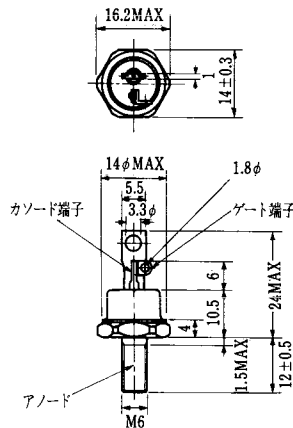
注 3. スwitching 時間の * 印は typ. 値。

(T _a = 25℃)											エミッタ・コレクタ間ダイオード							熱抵抗		等 価 回 路	外形図	記 事	型 名
飽和電圧 (V)		I _c	I _B	スイッチング時間 (μs)			I _{B1}	I _{B2}	V _{CC}	R _L	V _{FE} (V)	t _{rr} (μs)		I _F	V _{BE}	di/dt (A/μs)	R _{th(j-a)} (℃/W)						
V _{CE}	V _{BE}			t _{on}	t _{off}	t _r						I _F	I _F				I _F	V _{BE}	最大				
最大	最大	(A)	(A)	最大	最大	最大	(A)	(A)	(V)	(Ω)	最大	(A)	最大	(A)	(V)	(A/μs)	最大	最大					
2.5	3.5	75	1.5	2	15	5	1.5	-1.5	600	8	1.8	75	1.0	75	-3	100	0.31	1.3	CK-1	2-80B1A		MG75M2CK1	
2.5	3.5	75	1.5	2	15	5	1.5	-1.5	600	8	1.8	75	1.0	75	-3	100	0.31	1.3	YK-1	2-108A2A		MG75M2YK1	
2.5	3.5	75	1.5	3	12	5	1.5	-4.5	600	8	1.8	75	1.0	75	-3	100	0.31	1.3	YK-1	2-108A2A		MG75Q2YK1	
2.5	3.5	80	1.6	2	17	3	1.6	-4.8	600	7.5	1.8	80	1.2	80	-3	100	0.156	0.65	YK-2	2-109B3A		MG80S2YK1	
2.0	2.7	100	2.0	2	12	2	2.0	-2.0	300	3	1.6	100	2.0	100	-3	100	0.31	1.3	CL-1	2-68A2A		MG100G2CL1	
2.0	2.7	100	2.0	2	12	2	2.0	-2.0	300	3	1.7	100	1.5	100	-3	100	0.31	1.3	YL-1	2-96A3A		MG100G2YL1	
2.5	3.5	100	1.0	2	12	3	1.0	-1.0	300	3	1.8	100	0.7	100	-3	100	0.31	1.3	CK-1	2-80B1A		MG100H2CK1	
2.0	2.7	100	3.0	2	12	4	3.0	-3.0	300	3	1.5	100	2.0	100	-3	100	0.31	1.3	CL-1	2-68A2A		MG100H2CL1	
2.0	2.7	100	3.0	2	12	4	3.0	-3.0	300	3	1.7	100	1.5	100	-3	100	0.31	1.3	YL-1	2-96A3A		MG100H2YL1	
2.5	3.5	100	2.0	2	15	5	2.0	-2.0	600	6	1.8	100	1.0	100	-3	100	0.179	0.65	CK-3	2-80C1A		MG100M2CK1	
2.5	3.5	100	2.0	2	15	5	2.0	-2.0	600	6	1.8	100	1.0	100	-3	100	0.179	0.65	YK-2	2-109B3A		MG100M2YK1	
2.5	3.2	100	2.0	2	13	4	2.0	-6.0	600	6	1.8	100	1.5	100	-3	100	0.179	0.65	YK-2	2-109B3A		MG100Q2YK1	
2.0	2.7	150	3.0	3	12	2	3.0	-3.0	300	2	1.7	150	1.5	150	-3	100	0.178	0.65	YL-1	2-96A3A		MG150G2YL1	
2.0	2.7	150	4.0	2	12	5	4.0	-4.0	300	2	1.5	150	2.0	150	-3	100	0.178	0.65	CL-2	2-80C1A		MG150H2CL1	
2.0	2.7	150	4.0	3	12	5	4.0	-4.0	300	2	1.7	150	1.5	150	-3	100	0.178	0.65	YL-1	2-96A3A		MG150H2YL1	
2.5	3.5	150	3.0	2	15	5	3.0	-3.0	600	4	1.8	150	1.0	150	-3	100	0.156	0.65	CK-3	2-80C1A		MG150M2CK1	
2.5	3.5	150	3.0	2	15	5	3.0	-3.0	600	4	1.8	150	1.0	150	-3	100	0.156	0.65	YK-2	2-109B3A		MG150M2YK1	
2.5	3.5	150	3.0	2	15	3	3.0	-3.0	600	4	1.8	150	1.0	150	-3	100	0.156	0.65	YK-2	2-109B3A		MG150M2YK2	
2.5	3.5	150	3.0	3	12	5	3.0	-9.0	600	4	1.8	150	1.5	150	-3	100	0.156	0.65	YK-2	2-109B3A		MG150Q2YK1	
2.5	3.5	200	2.0	1	12	5	2.0	-2.0	300	1.5	1.8	200	0.7	200	-3	100	0.156	0.65	CK-3	2-80C1A		MG200H2CK1	

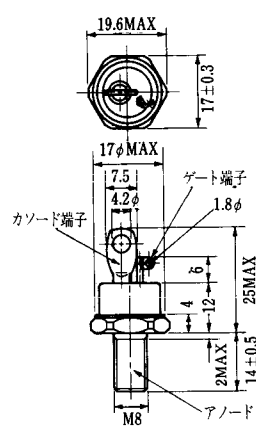
FD-1



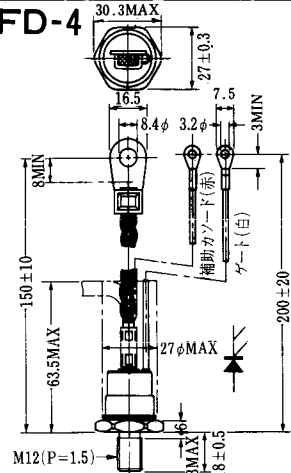
FD-2



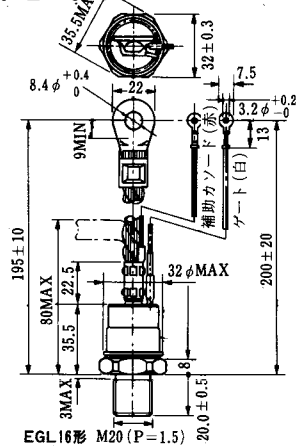
FD-3



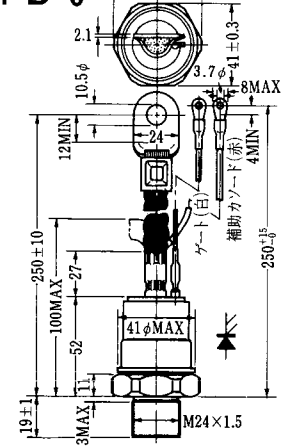
FD-4



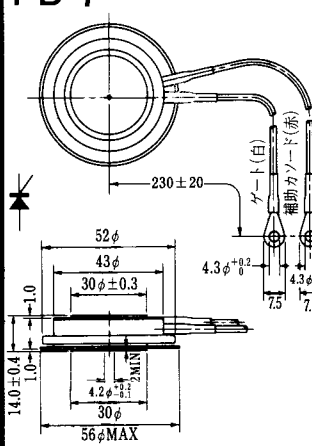
FD-5



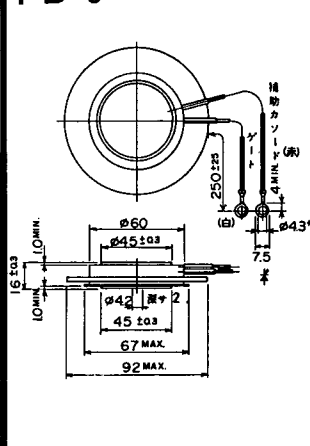
FD-6

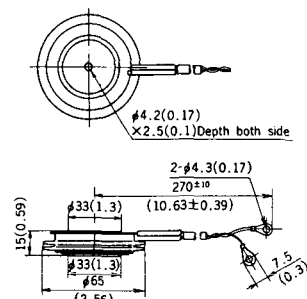
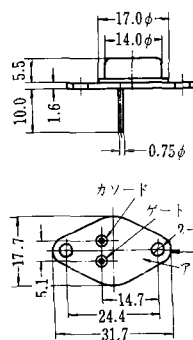
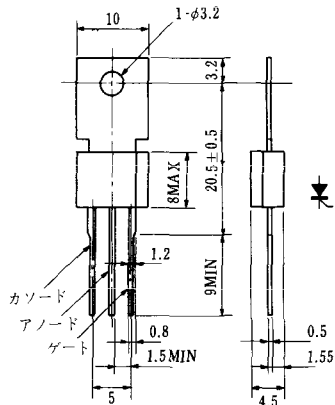


FD-7

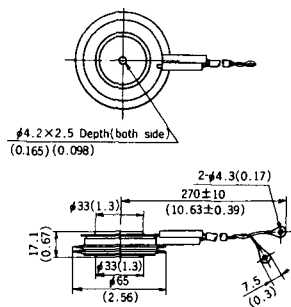


FD-8

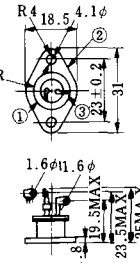
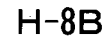
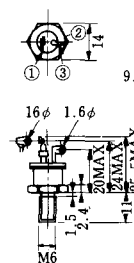
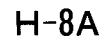
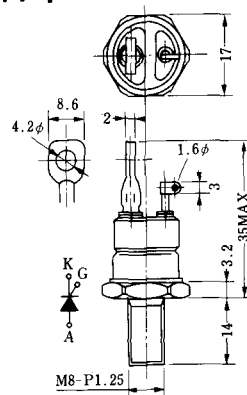
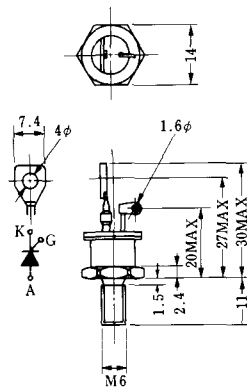




Unit in mm(inch)

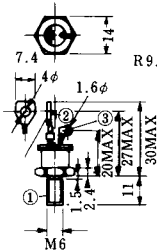


Unit in mm(inch)

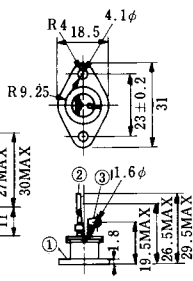


- ①アノード
②カソード
③ゲート

H-9A

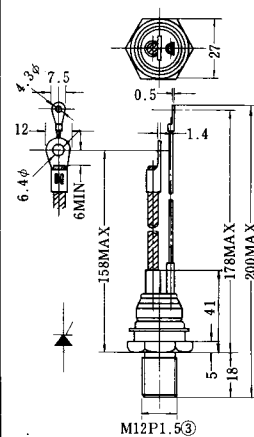


H-9B

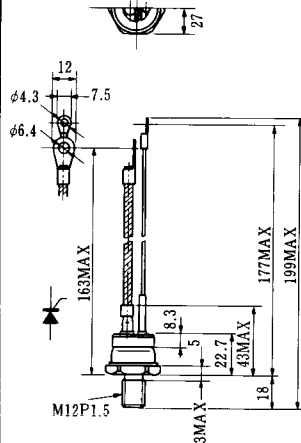


- ① アノード
- ② カソード
- ③ ゲート

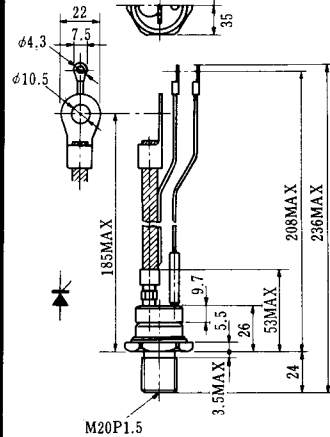
H-10



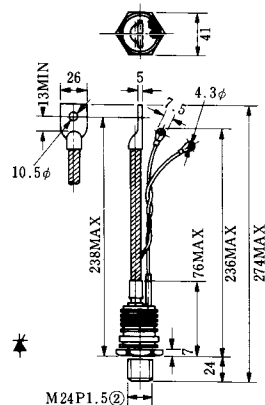
H-11



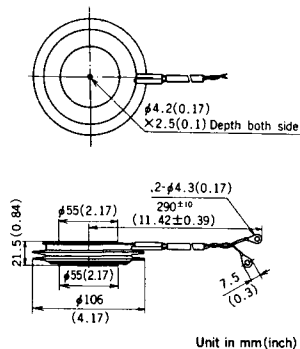
H-12



H-13

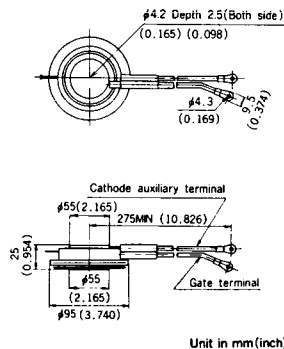


H-14



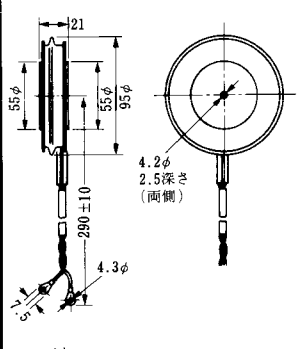
Unit in mm (inch)

H-15

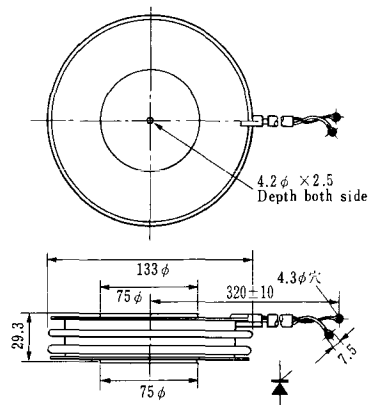


Unit in mm (inch)

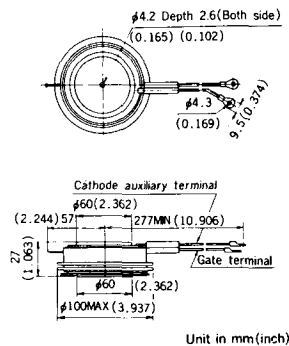
H-16



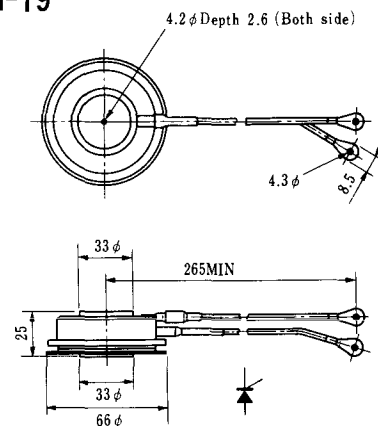
H-17



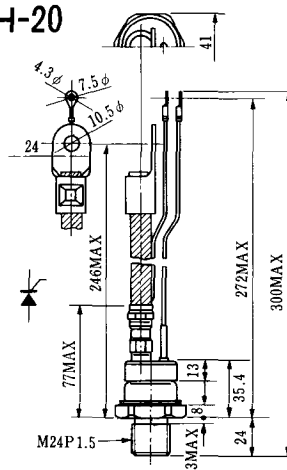
H-18



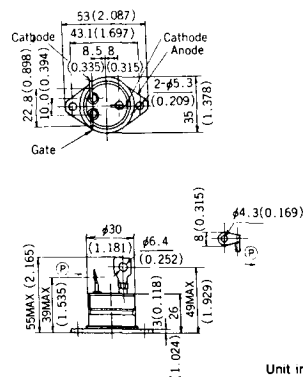
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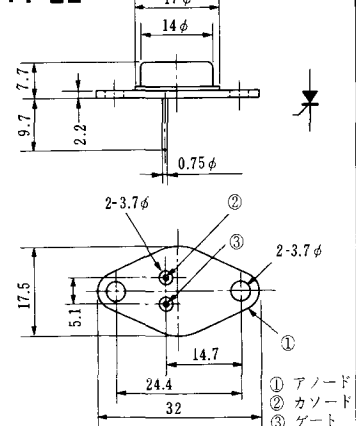
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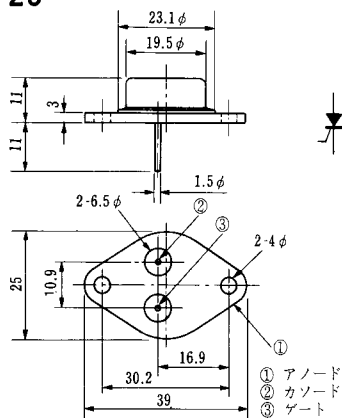
H-21



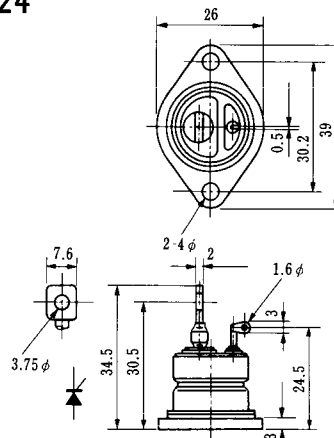
H-22



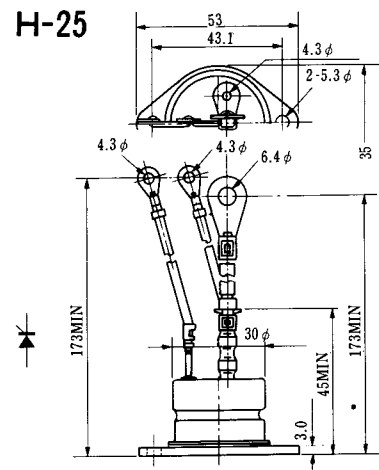
H-23



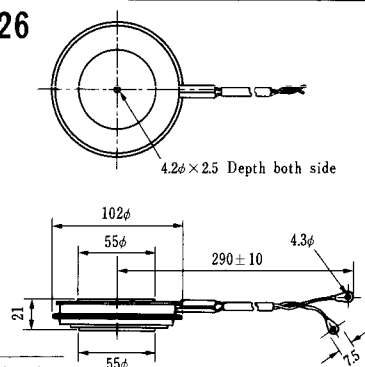
H-24



H-25

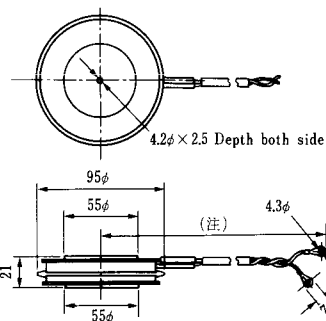


H-26



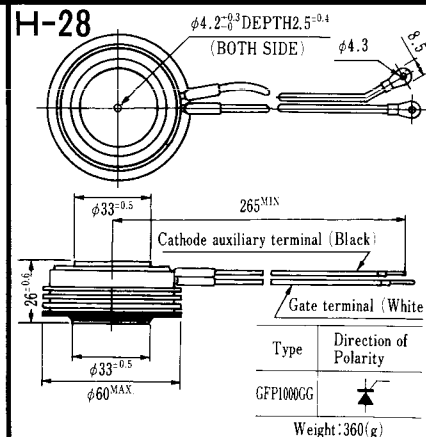
Type	Direction of polarity
CA12	

H-27



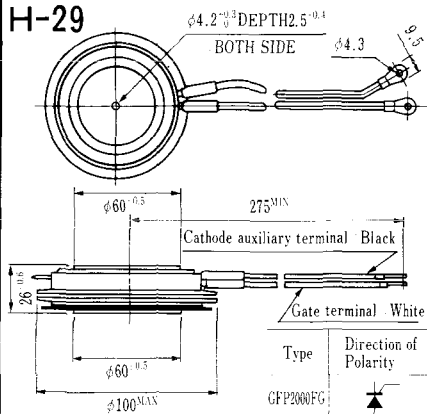
Type	Direction of polarity
CF11V	

H-28



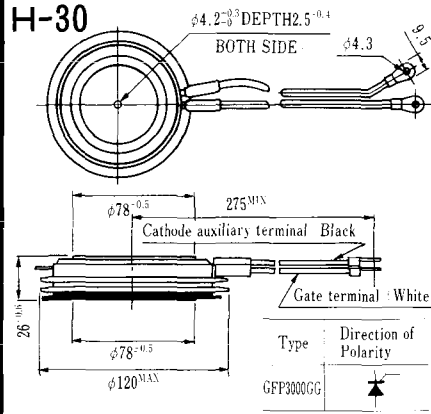
Note: The thickness is a dimension in press at the rated mounting force.

H-29



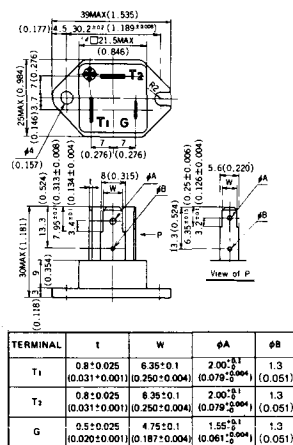
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



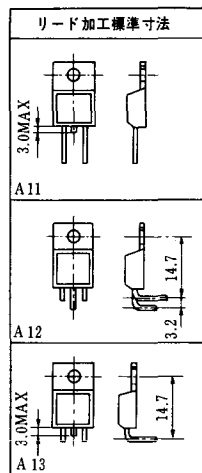
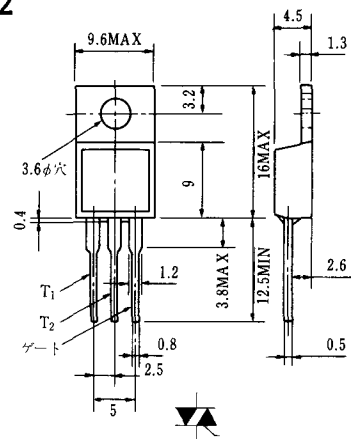
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

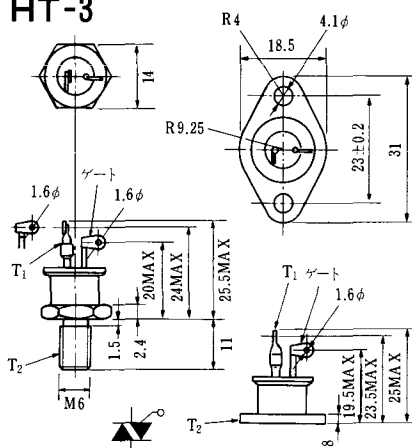


Unit in mm (inch)

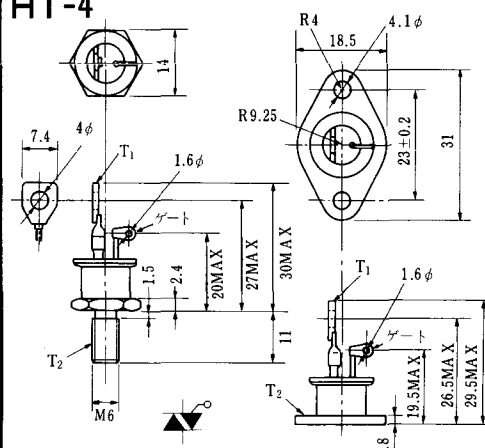
HT-2



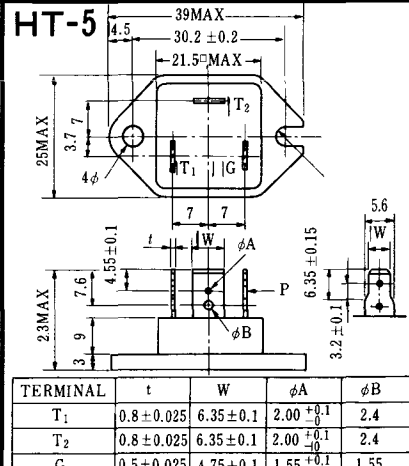
HT-3



HT-4

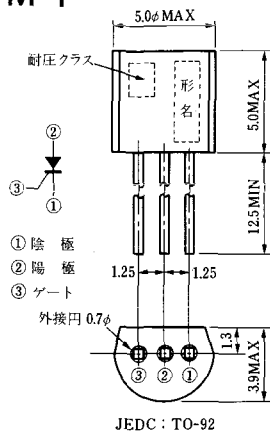


HT-5

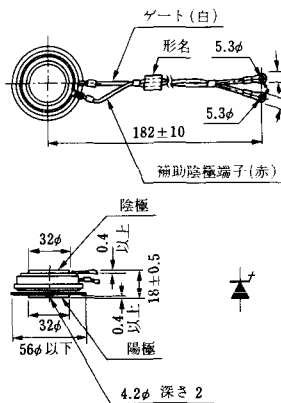


《寸法図単位：mm》

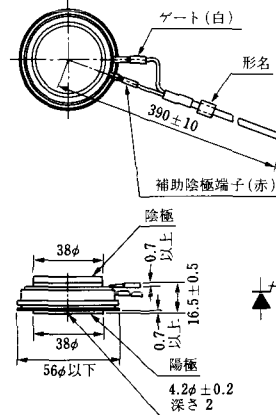
M-1



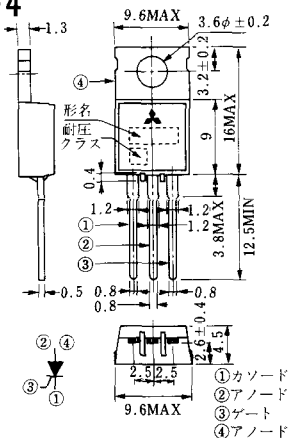
M-2



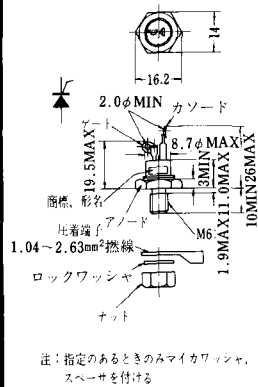
M-3



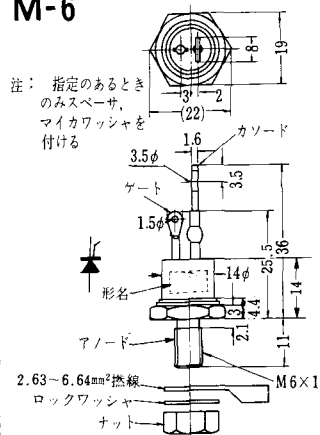
M-4



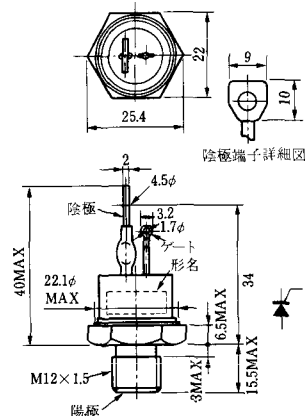
M-5



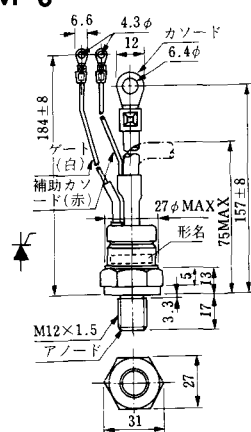
M-6



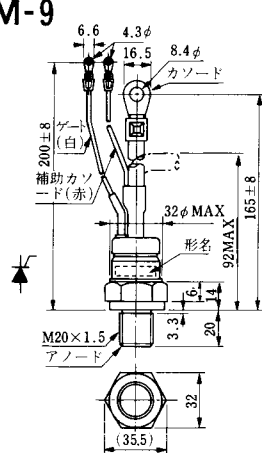
M-7



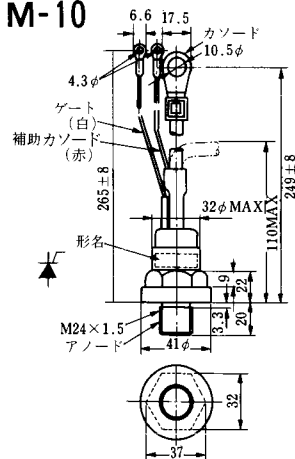
M-8



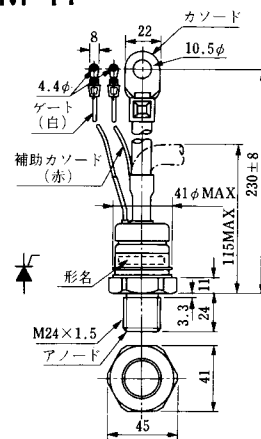
M-9



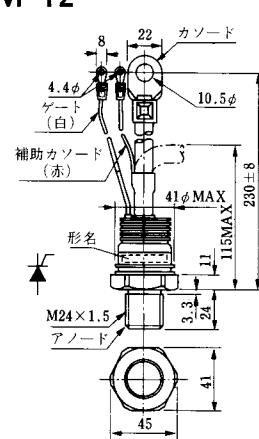
M-10



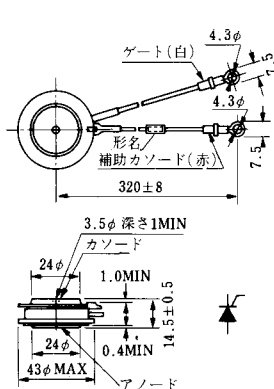
M-11



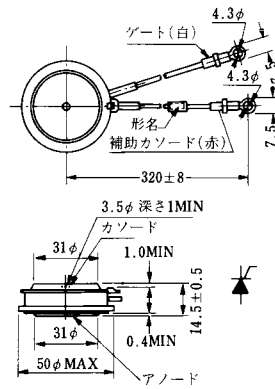
M-12



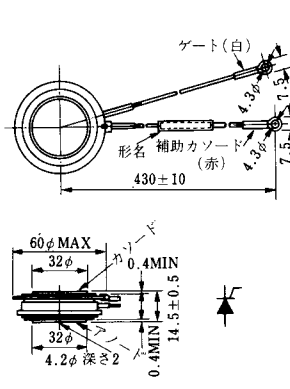
M-13



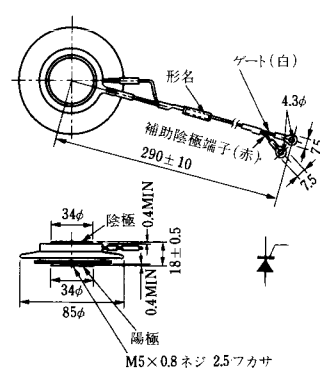
M-14



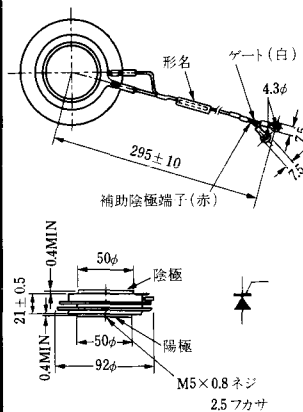
M-15



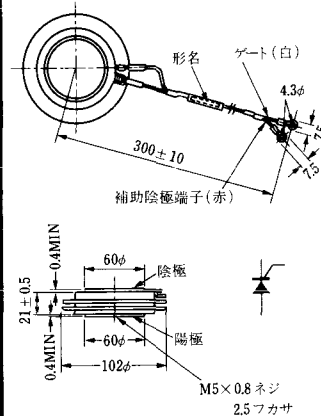
M-16



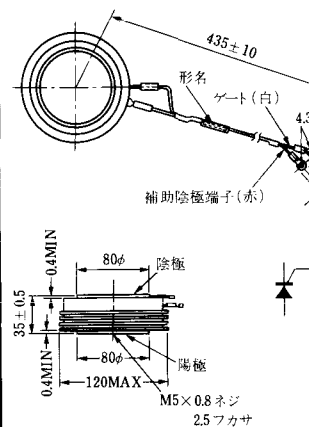
M-17



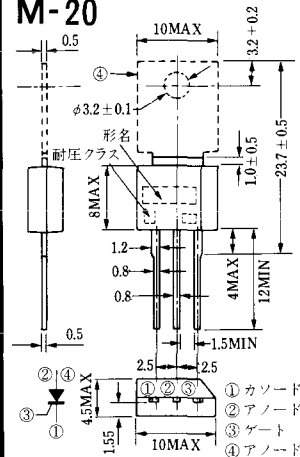
M-18



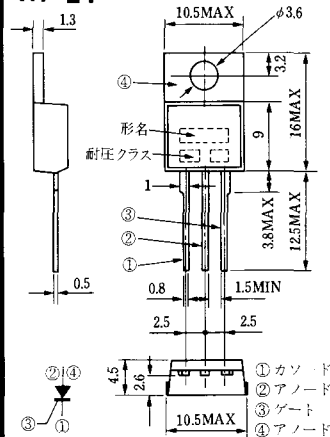
M-19



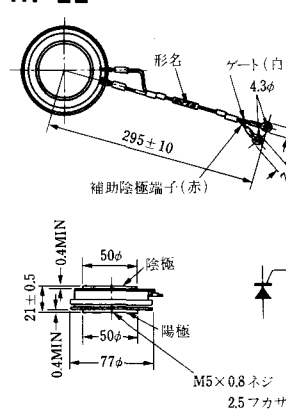
M-20



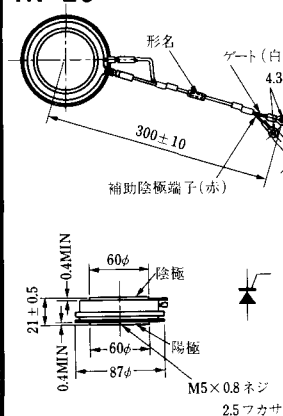
M-21



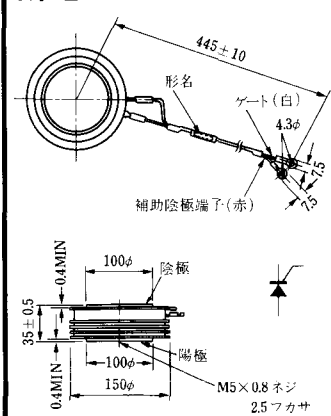
M-22



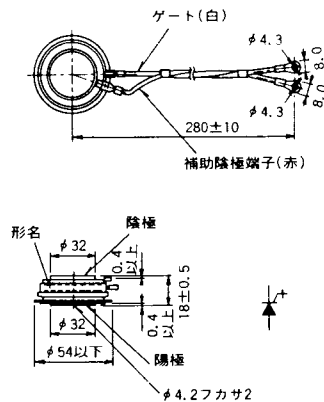
M-23



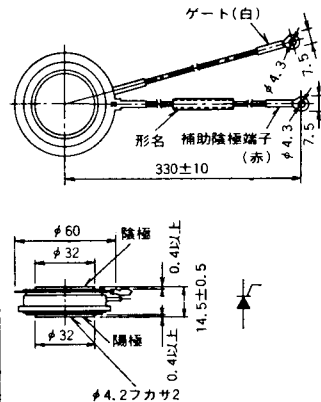
M-24



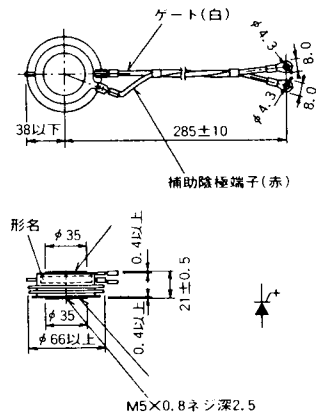
M-25



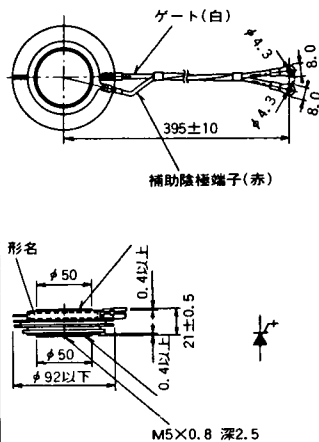
M-26



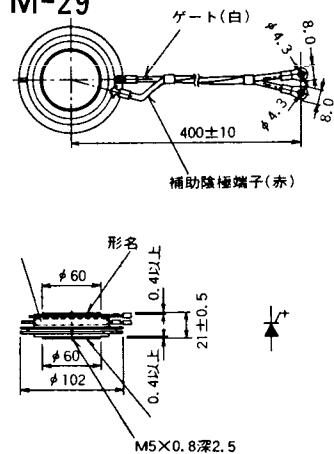
M-27



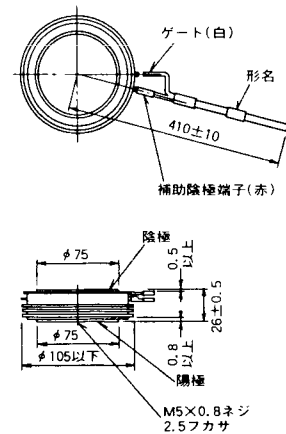
M-28



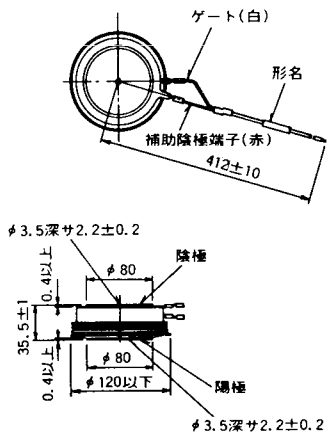
M-29



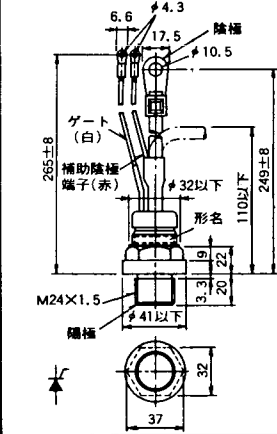
M-30



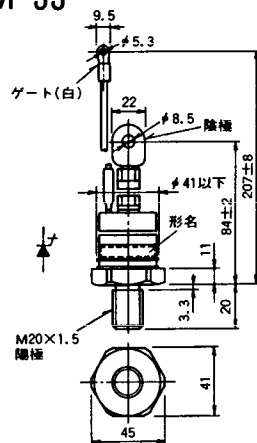
M-31



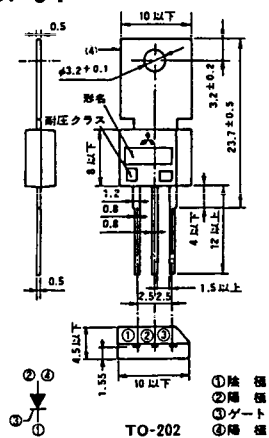
M-32



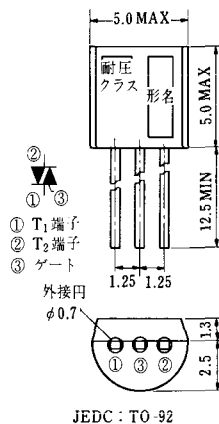
M-33



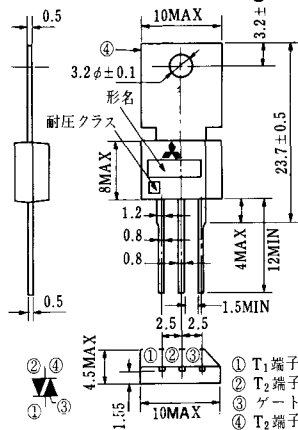
M-34



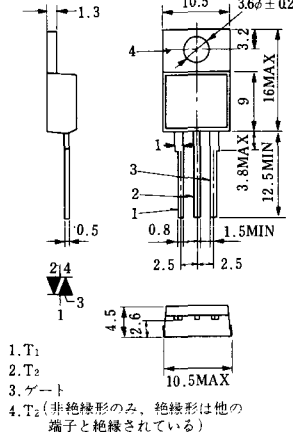
MT-1



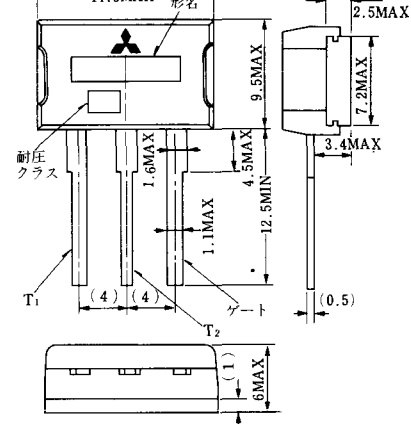
MT-2



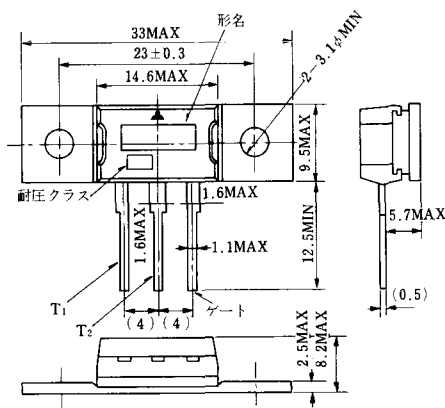
MT-3



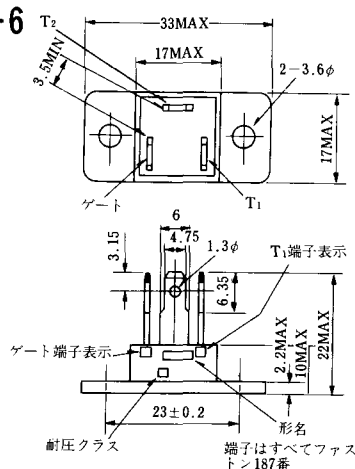
MT-4



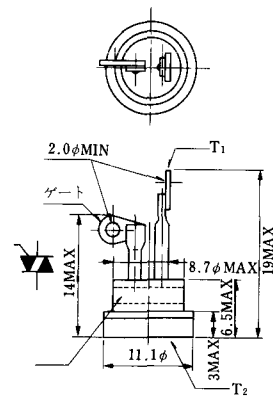
MT-5



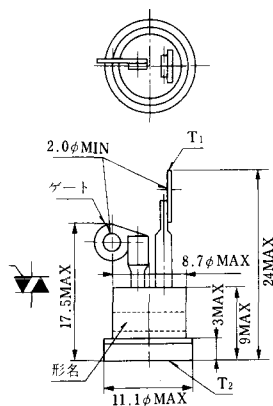
MT-6



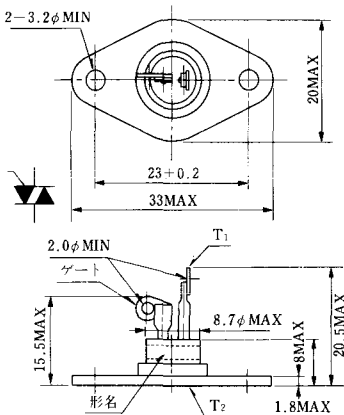
MT-7



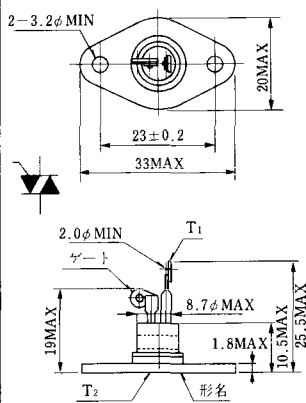
MT-8



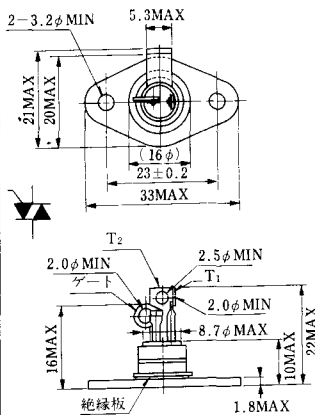
MT-9



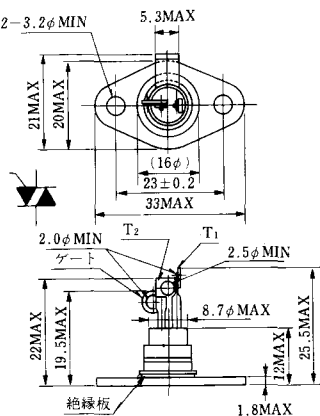
MT-10



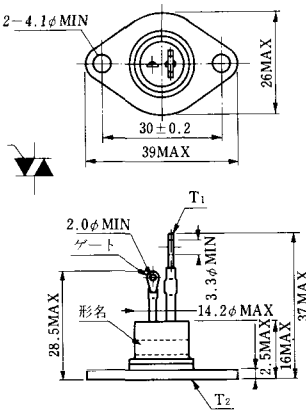
MT-11



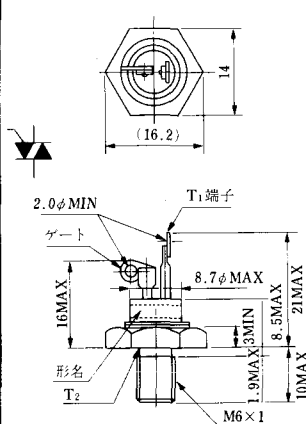
MT-12



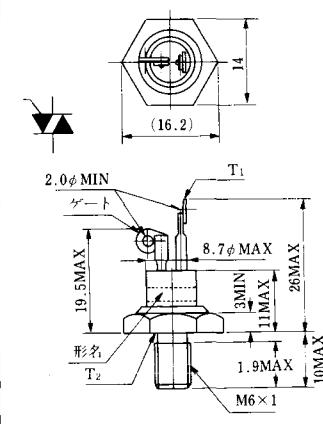
MT-13



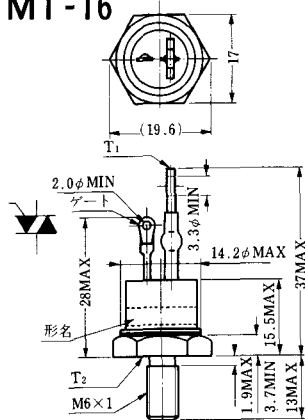
MT-14



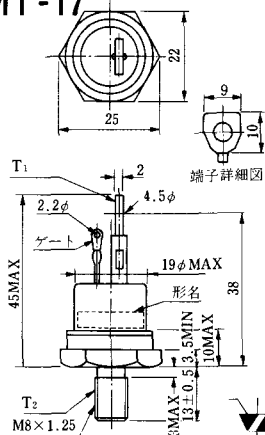
MT-15



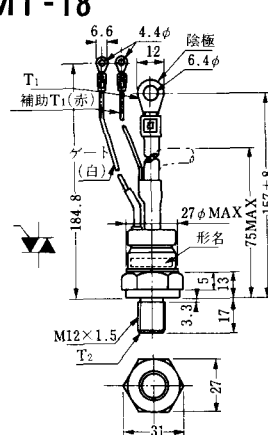
MT-16



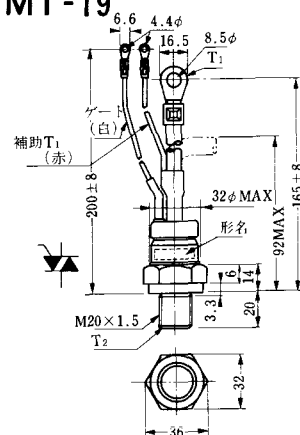
MT-17



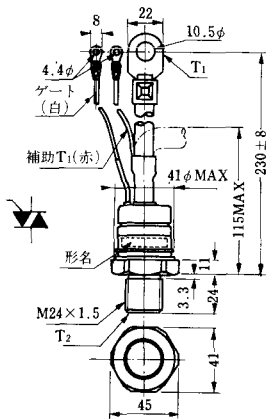
MT-18



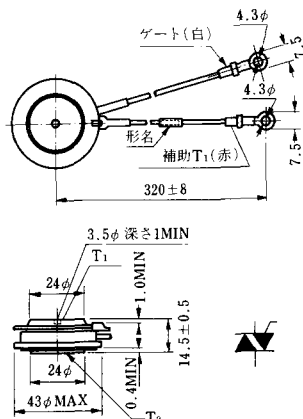
MT-19



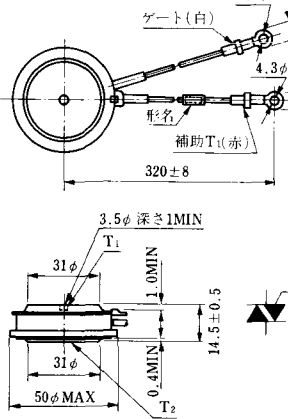
MT-20



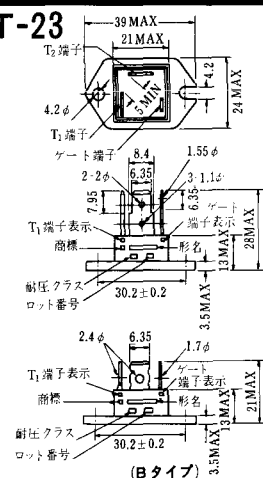
MT-21



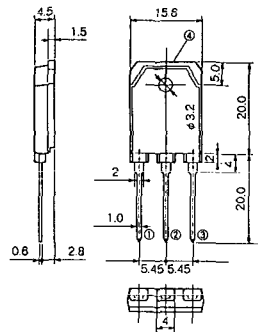
MT-22



MT-23

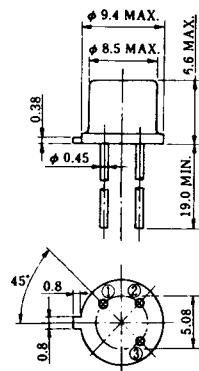


MT-24



- ① T1 端子
 - ② T2 端子
 - ③ ゲート端子
 - ④ T2 端子
- TO - 3P

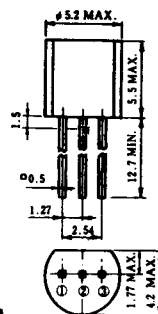
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

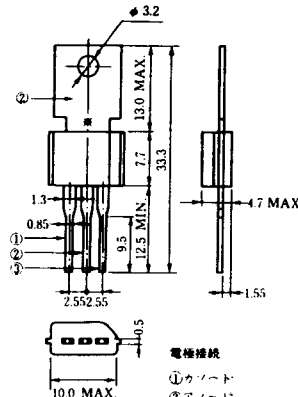
N-2



電極接続

- ① ヤート
- ② アノード
- ③ カソード

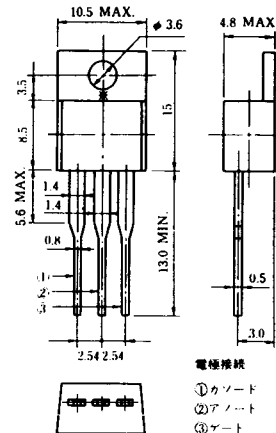
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

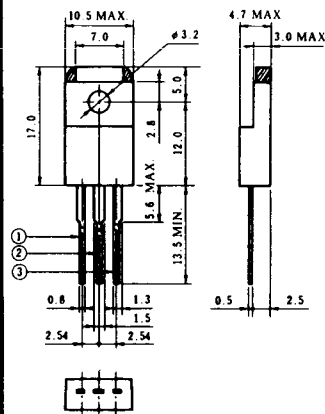
N-4



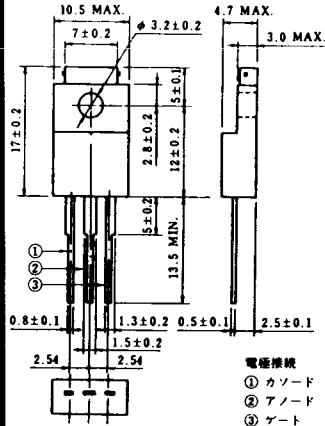
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



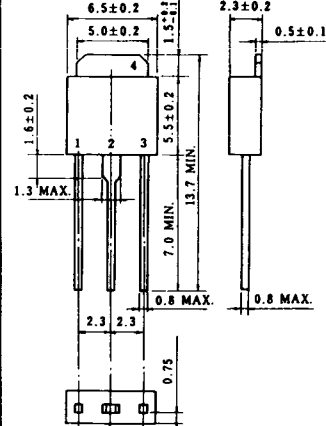
N-6



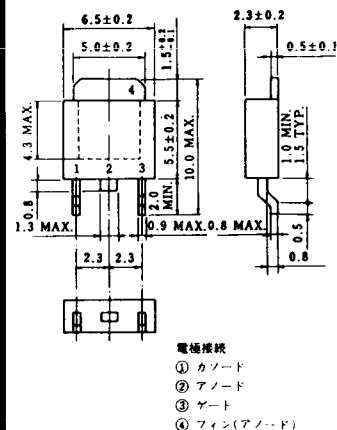
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



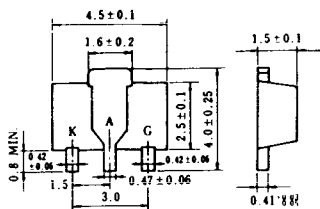
N-8



電極接続

- ① カソード
- ② アノード
- ③ ゲート
- ④ フィン(アノード)

N-9



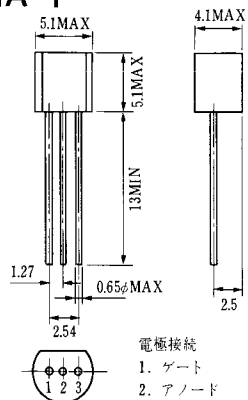
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

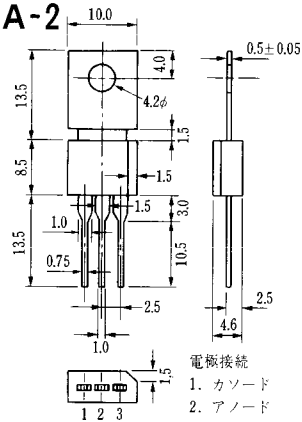


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2

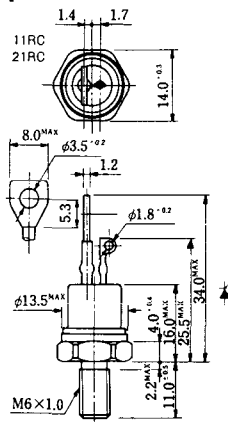


電極接続

1. カソード
2. アノード
3. ゲート

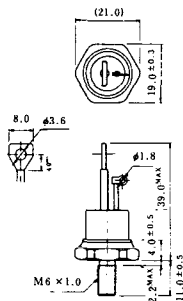
JEDEC: TO-202AA

NI-1



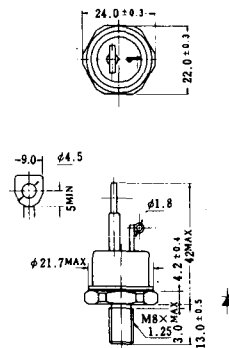
NI-2

29RD



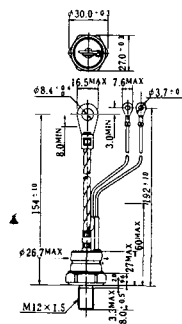
NI-3

39RC
59RC
39RF
59RF



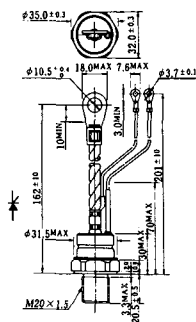
NI-4

68RP, 88RP, 108RP, 68RS,
88RS, 78RT, 88RLD, 88RLE,
88RLF, 88RLG, 88RLH, 108RLE



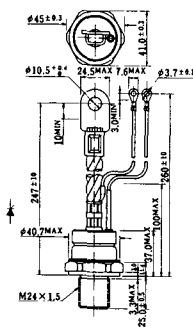
NI-5

158RP, 208RP, 128RS, 178RS,
158RT, 178RLD, 178RLE,
178RLF, 178RLG, 178RLH,
208RLE



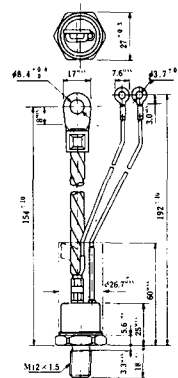
NI-6

308RP, 408RP, 508RP, 278RS,
358RS, 258RT, 258RLD, 258RLG,
258RLH, 308RLE, 308RLF,
358RLE



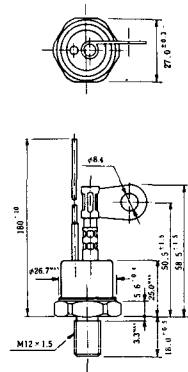
NI-7

89RW $\frac{1}{2}$ L
129RW $\frac{1}{2}$ L



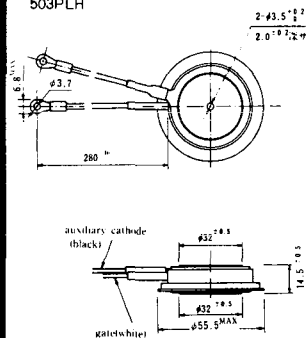
NI-8

89RW
129RW



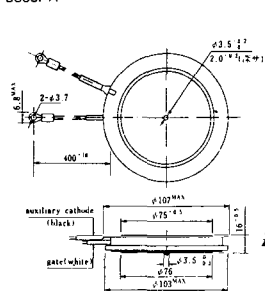
NI-16

503PLF
503PLH



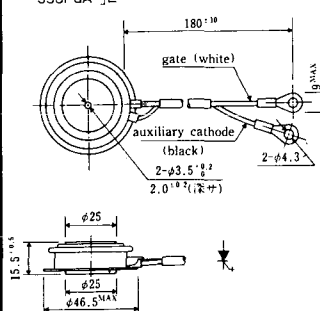
NI-17

3003PA



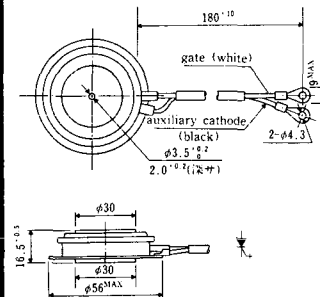
NI-18

353PGA「E



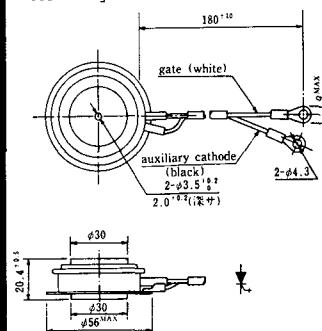
NI-19

603PGA, 603PGA「A, 803PGA



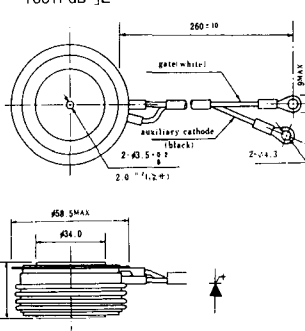
NI-20

603PGA「E



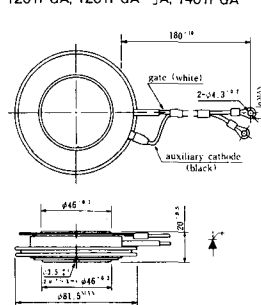
NI-21

1001PGB「E



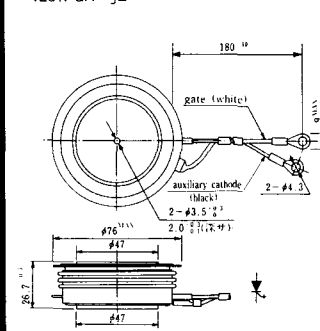
NI-22

1201PGA, 1201PGA「A, 1401PGA



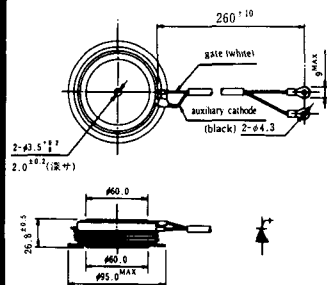
NI-23

1201PGA「E



NI-24

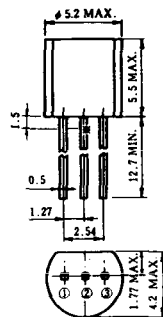
2001PGB¹ J_E



NI-25

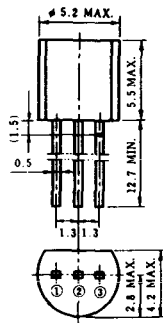
NI-26

NT-1



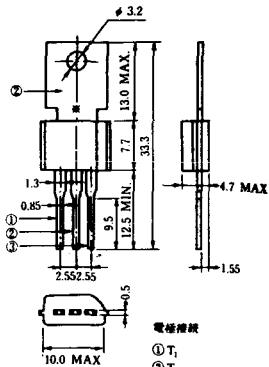
電線接続
① T₁
② ゲート
③ T₂

NT-2



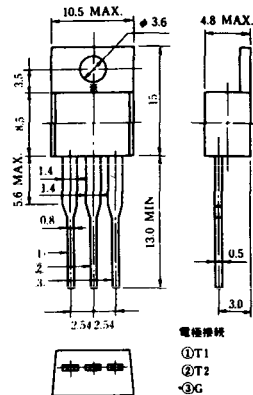
電線接続
① T₁
② ゲート
③ T₂

NT-3



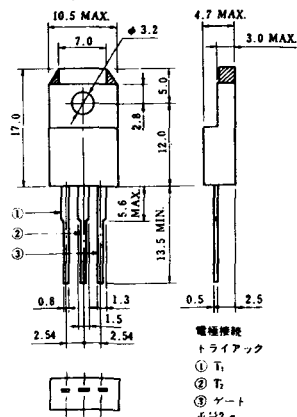
電線接続
① T₁
② T₂
③ ゲート

NT-4



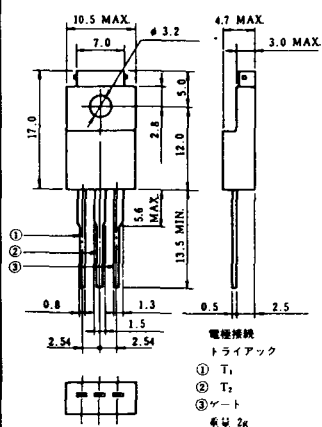
電線接続
① T₁
② T₂
③ G

NT-5



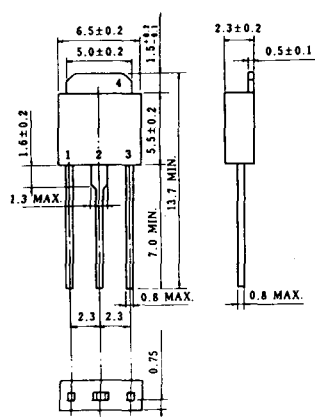
電線接続
トリアック
① T₁
② T₂
③ ゲート
④ 2K

NT-6

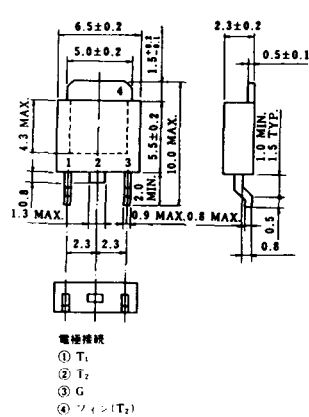


電線接続
トリアック
① T₁
② T₂
③ ゲート
④ 2K

NT-7

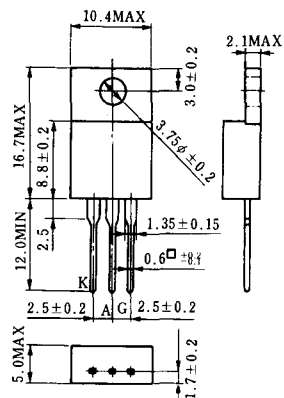


NT-8

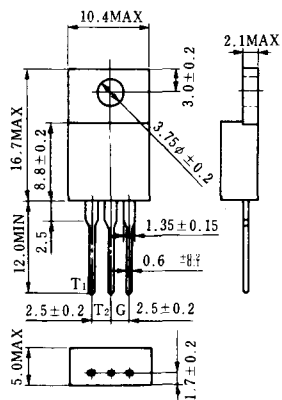


電線接続
① T₁
② T₂
③ G
④ T₁ (T₂)

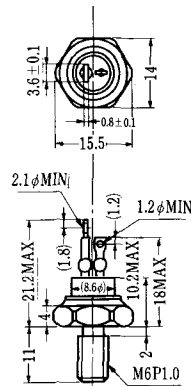
S-1



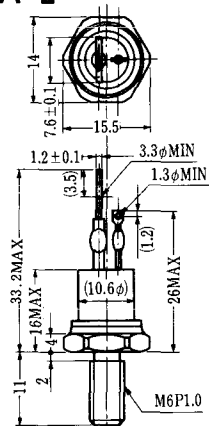
ST-1



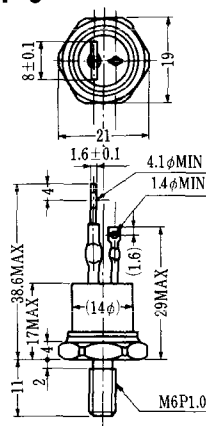
SA-1



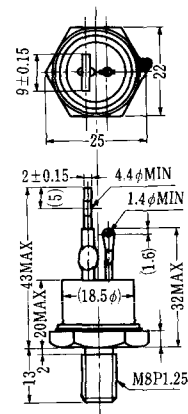
SA-2



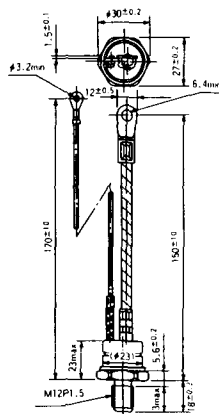
SA-3



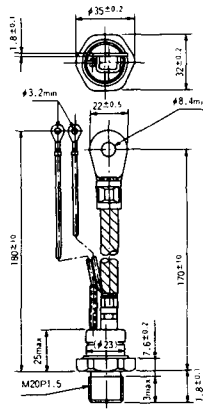
SA-4



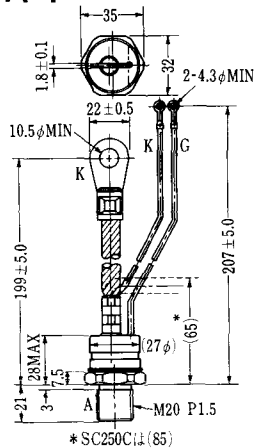
SA-5



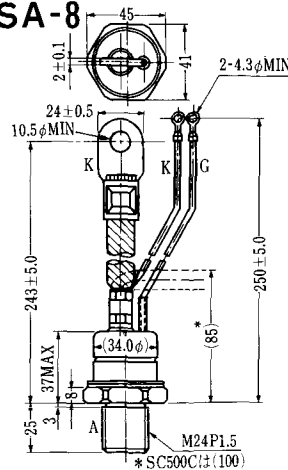
SA-6



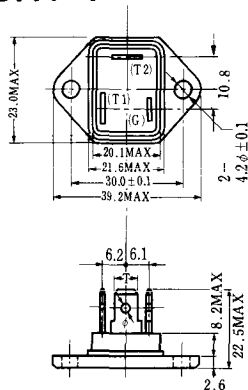
SA-7



SA-8

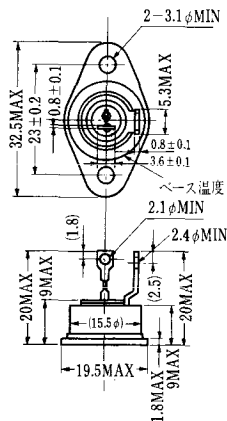


SAT-1

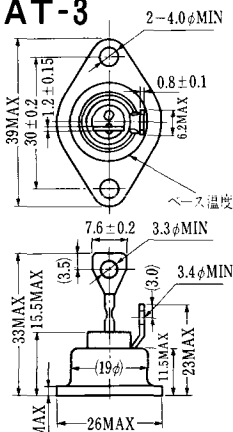


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

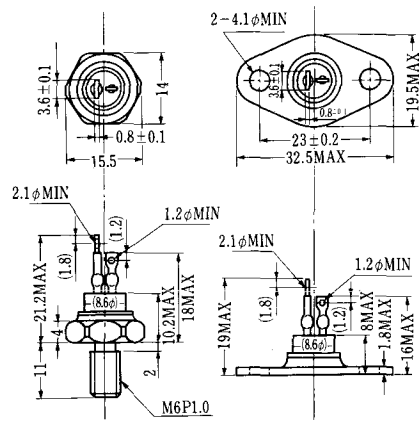
SAT-2



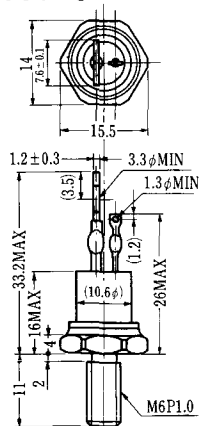
SAT-3



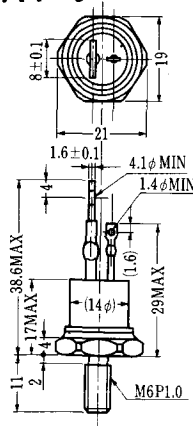
SAT-4



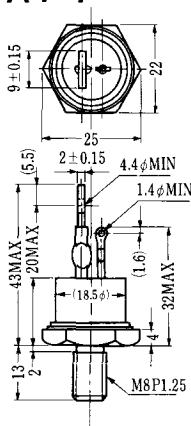
SAT-5



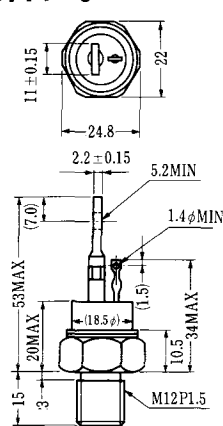
SAT-6



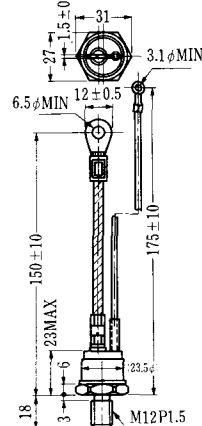
SAT-7



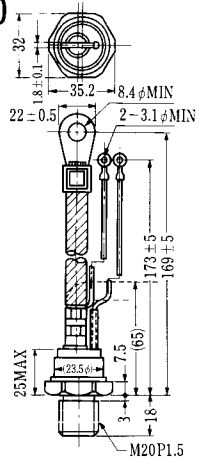
SAT-8



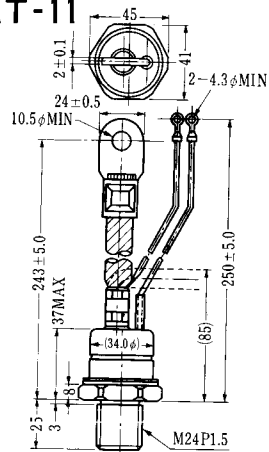
SAT-9.



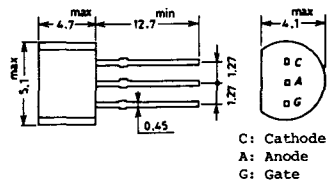
SAT-10



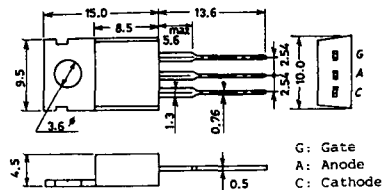
SAT-11



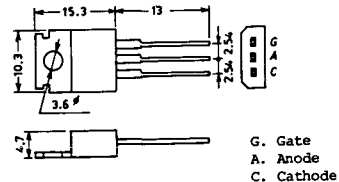
SY-1(1096A)



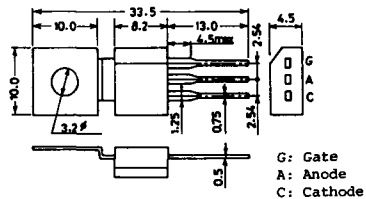
SY-2(1151)



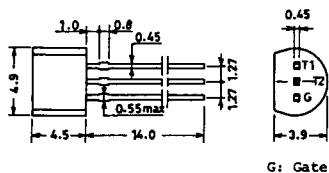
SY-3(1104)



SY-4(1150)

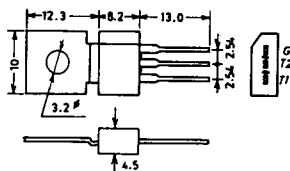


1097A

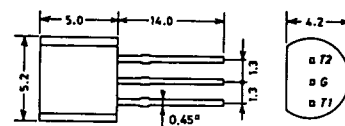


G: Gate

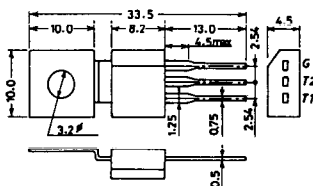
1102



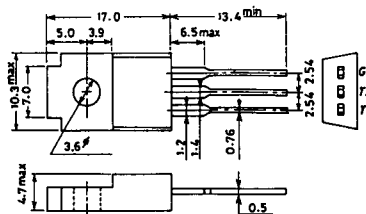
1141



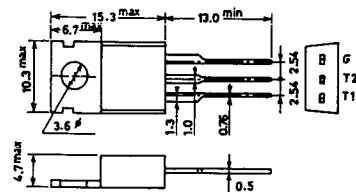
1142



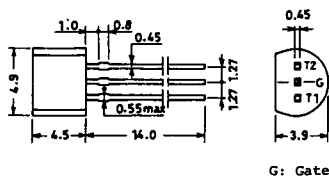
1144



1155

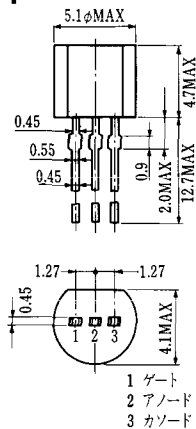


1192A

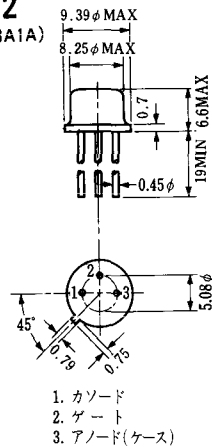


G: Gate

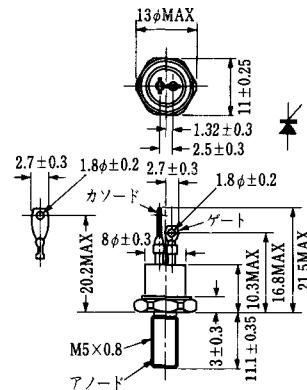
T-1 (13-5A1A)



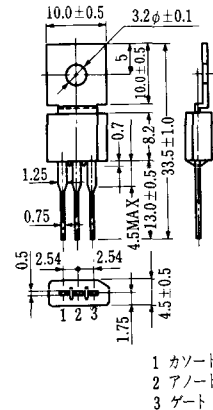
T-2 (13-8A1A)



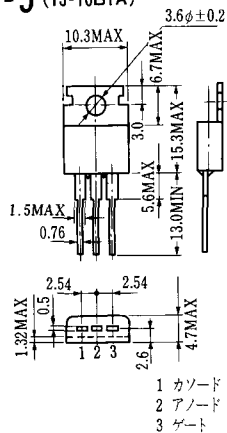
T-3 (13-8C1A)



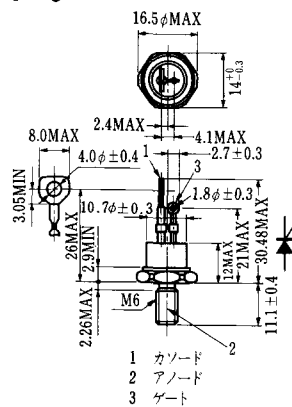
T-4 (13-10A1A)



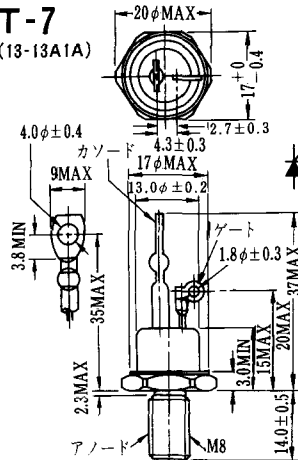
T-5 (13-10B1A)



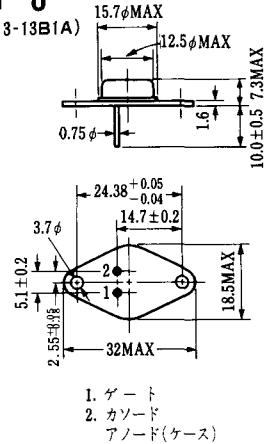
T-6 (13-11D1A)



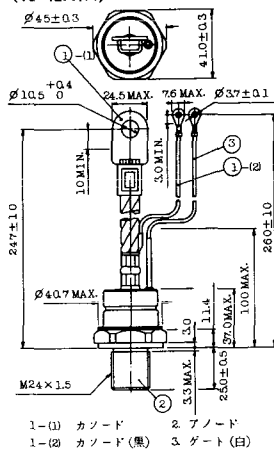
T-7 (13-13A1A)



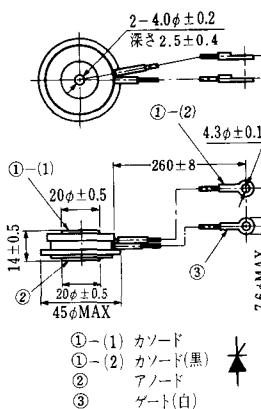
T-8 (13-13B1A)



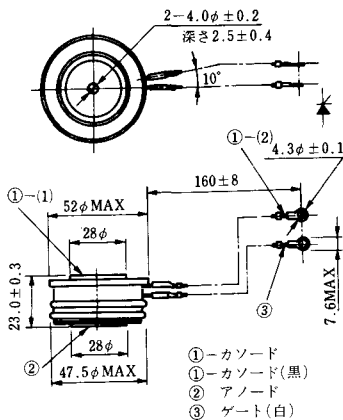
T-17 (13-42A1A)



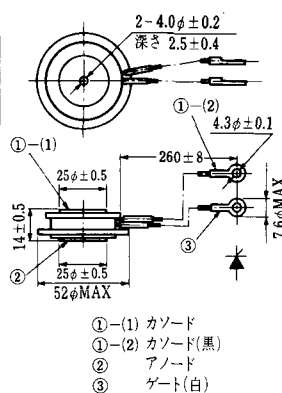
T-18 (13-45D1A)



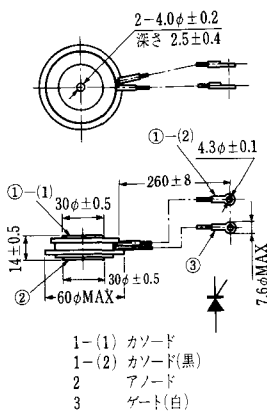
T-19 (13-52B1A)



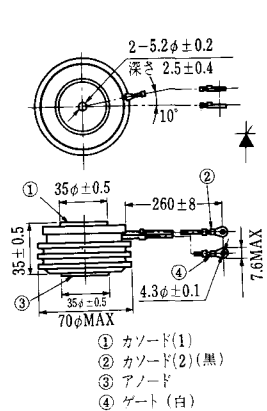
T-20 (13-52C1A)



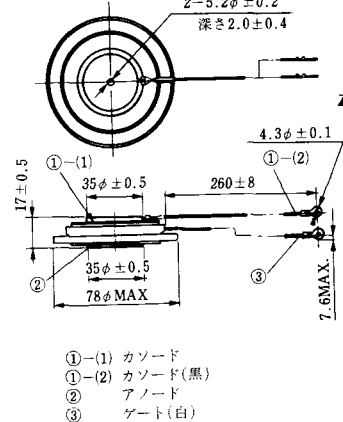
T-21 (13-60A1A)



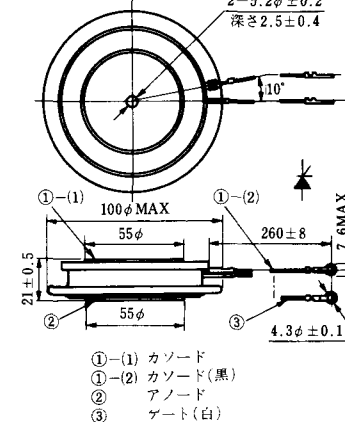
T-22 (13-70C1A)



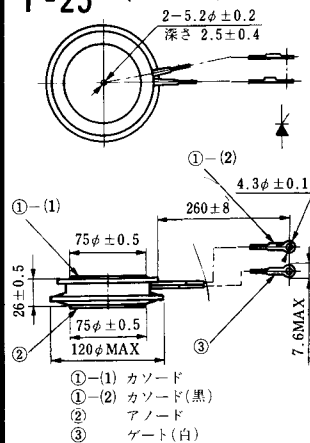
T-23 (13-78A1A)



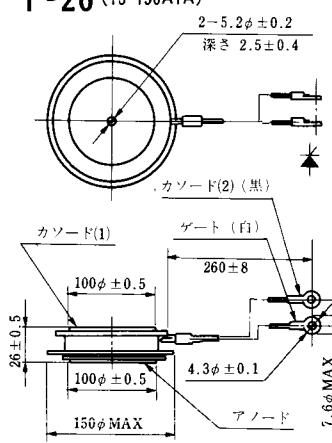
T-24 (13-100C1A)



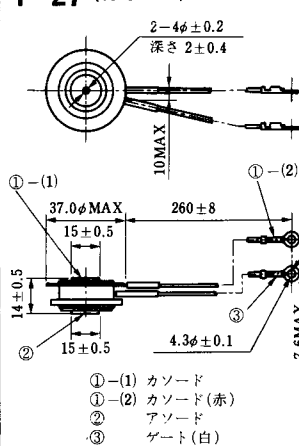
T-25 (13-120A2A)



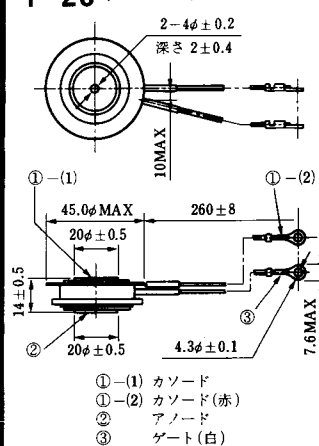
T-26 (13-150A1A)



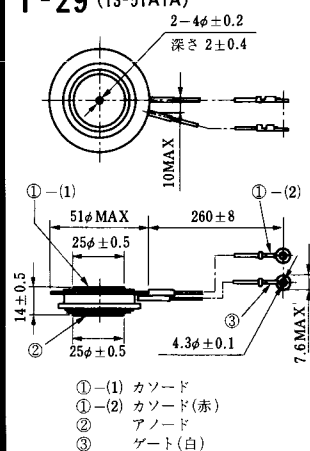
T-27 (13-37A1A)



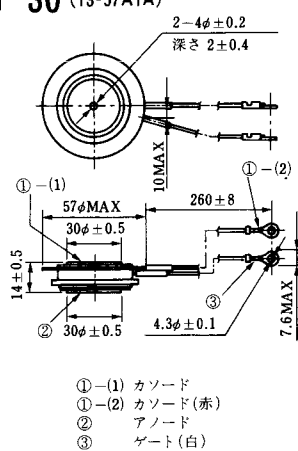
T-28 (13-45E1A)



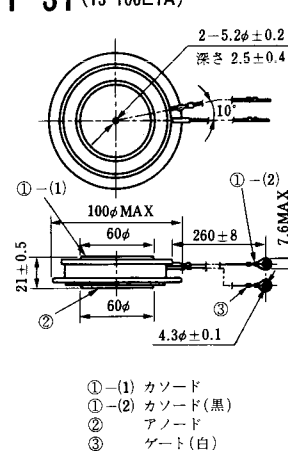
T-29 (13-51A1A)



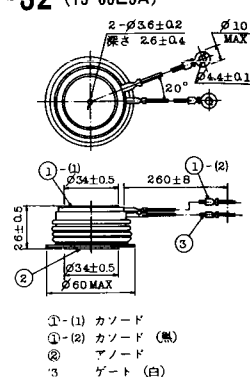
T-30 (13-57A1A)



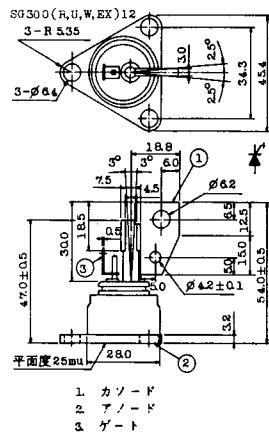
T-31 (13-100E1A)



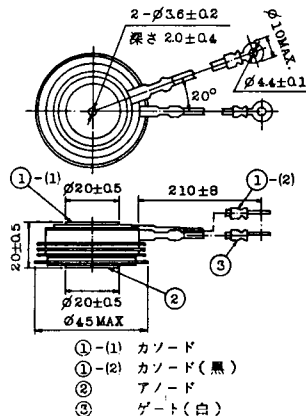
T-32 (13-60E3A)



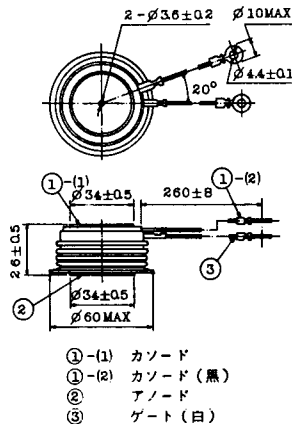
T-41 (13-28A2A)



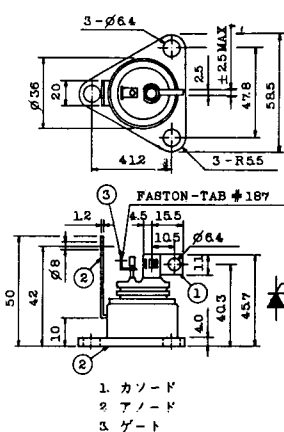
T-42 (13-45F1A)



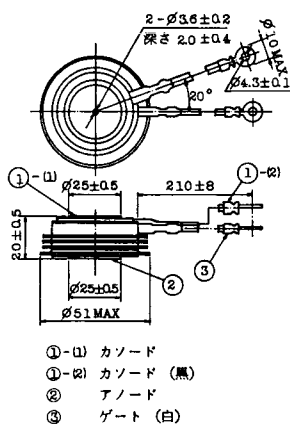
T-43 (13-60E2A)



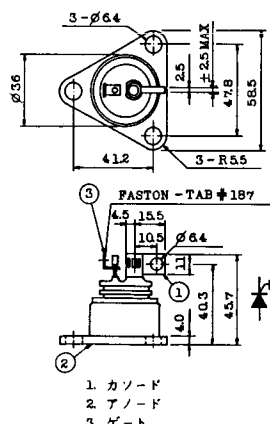
T-44 (13-36A1A)



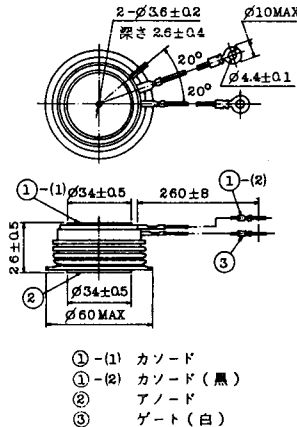
T-45 (13-51B1A)



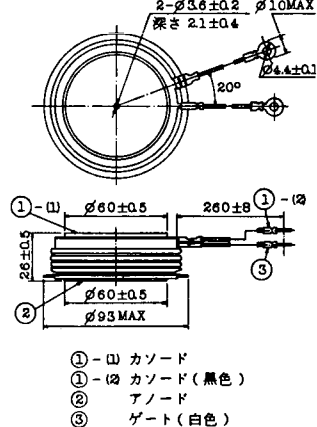
T-46 (13-36B1A)



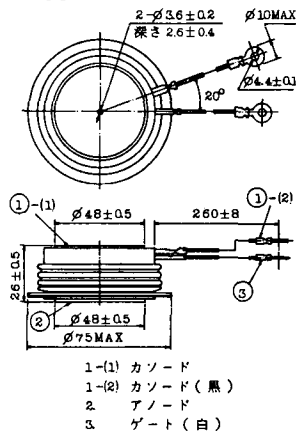
T-47 (13-60E1A)



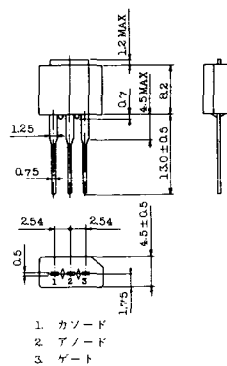
T-48 (13-93C1A)



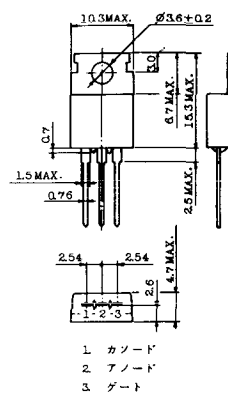
T-49 (13-75A1A)



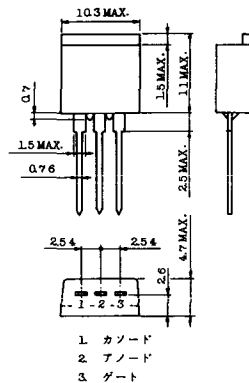
T-50 (13-10A3A)



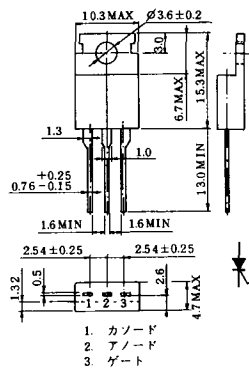
T-51 (13-10D1A)



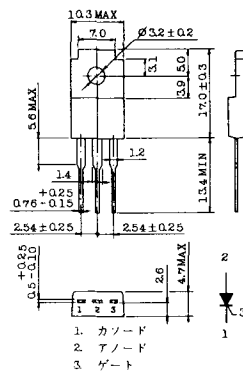
T-52 (13-10D2A)



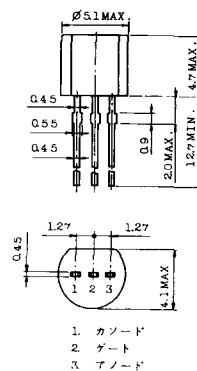
T-53 (13-10E1B)



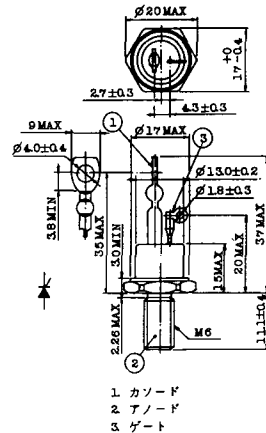
T-54 (13-10F1B)



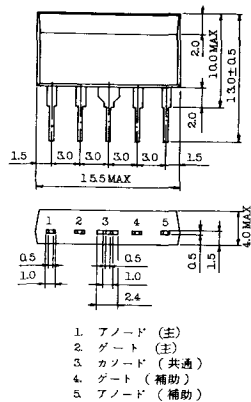
T-55 (13-5A1D)



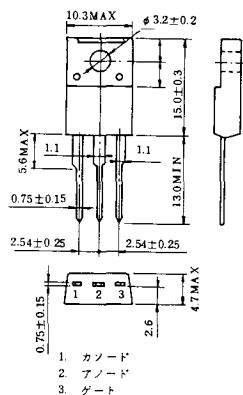
T-56 (13-13C1A)



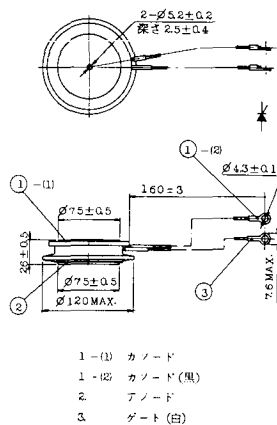
T-57 (12-16C1A)



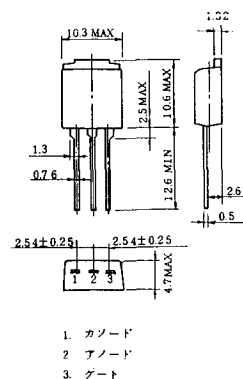
T-58 (13-10H1B)



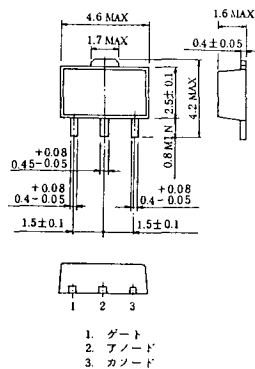
T-59 (13-120A1A)



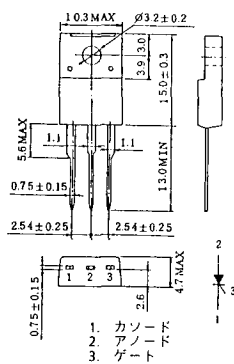
T-60



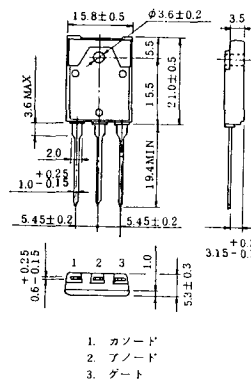
T-61 (13-5B1A)



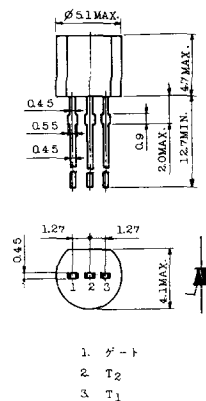
T-62 (13-10H1A)



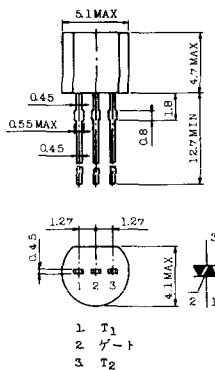
T-63 (13-16A1B)



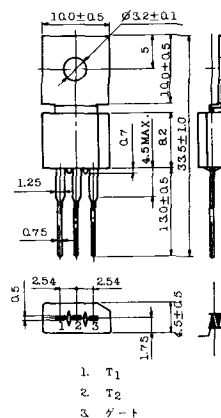
TT-1



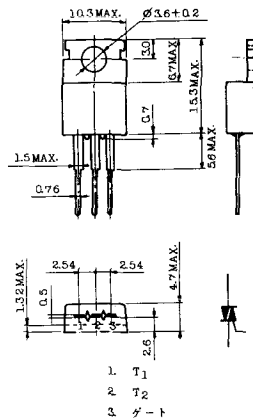
TT-2



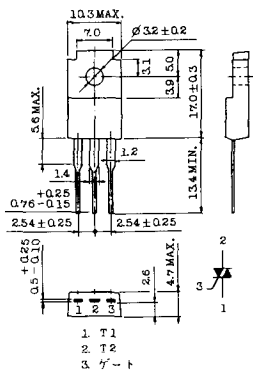
TT-3



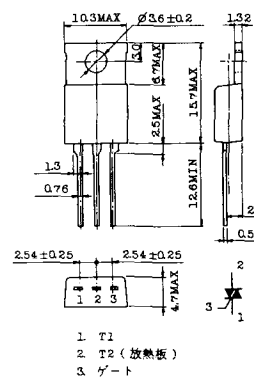
TT-4



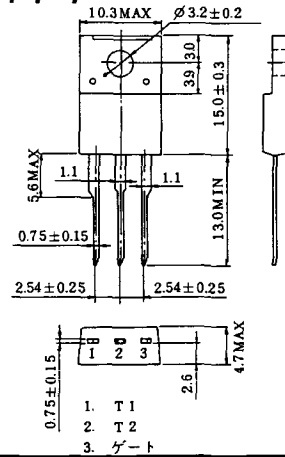
TT-5



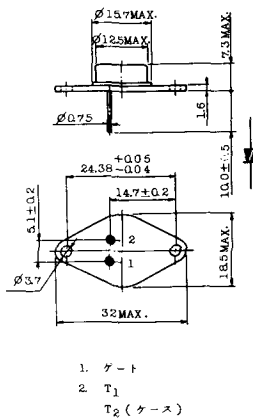
TT-6



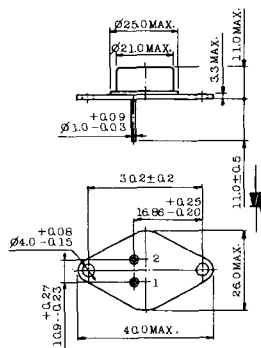
TT-7



TT-8

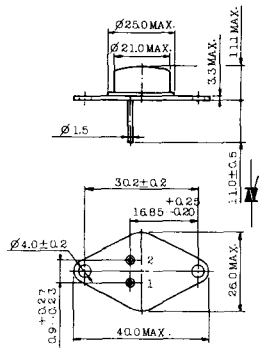


TT-9



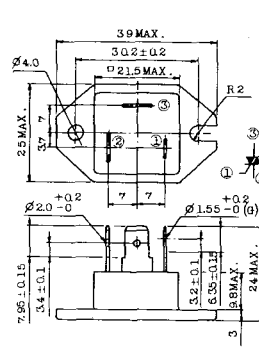
1. ゲート
2. T₁
3. T₂ (ケース)

TT-10



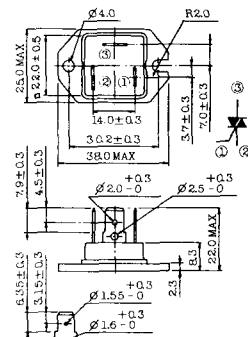
1. ゲート
2. T₁
3. T₂ (ケース)

TT-11



1. ゲート (ファストン端子 #187)
2. T₁ (" #250)
3. T₂ (" #250)

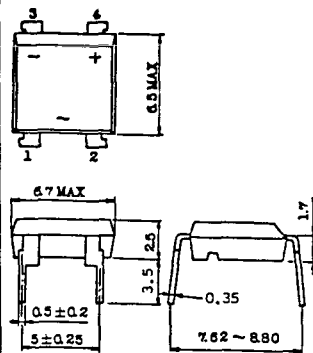
TT-12



ゲート端子詳細

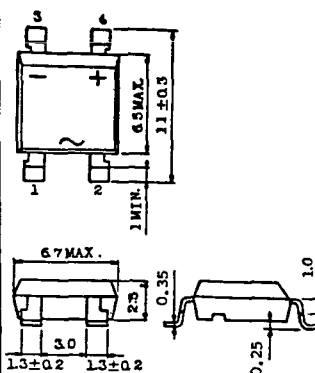
- ① ゲート (ファストン端子 #187)
- ② T₁ (" #250)
- ③ T₂ (" #250)

TT-13



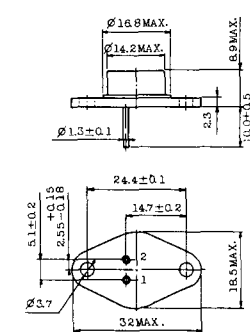
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-14



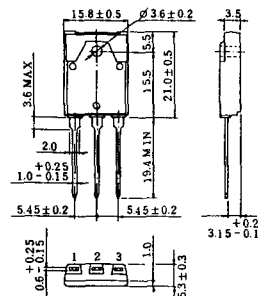
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-15 (13-14A1B)



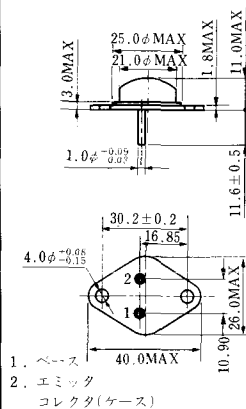
1. ゲート
2. T₁
- T₂ (ケース)

TT-16 (13-16A1A)

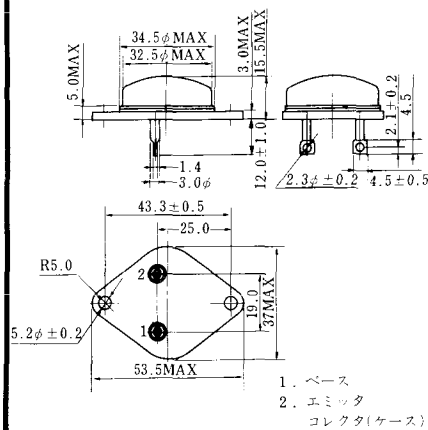


1. T₁
2. T₂
3. ゲート

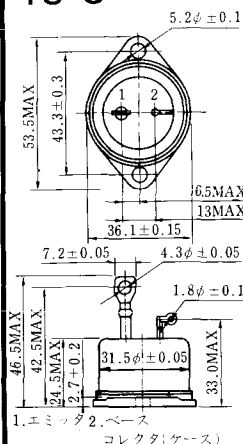
TS-1



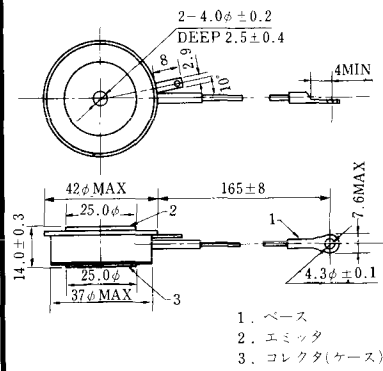
TS-2



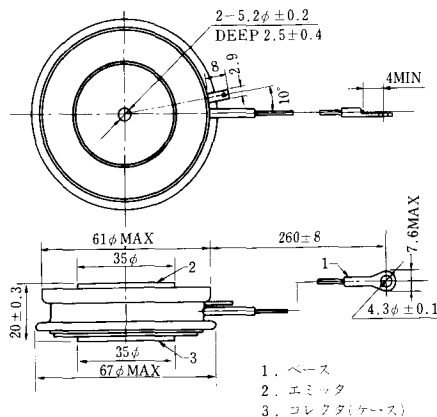
TS-3



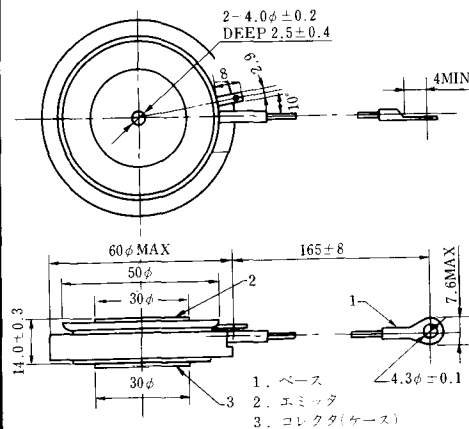
TS-4



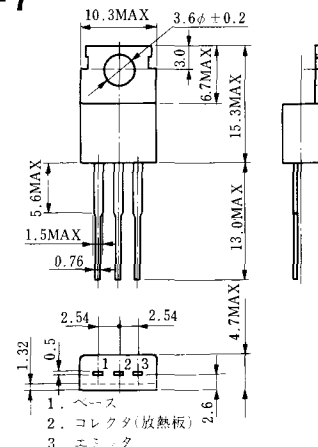
TS-5

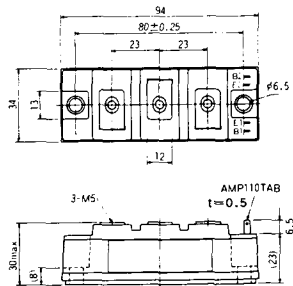
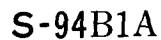
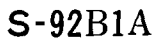
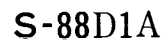
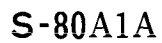


TS-6

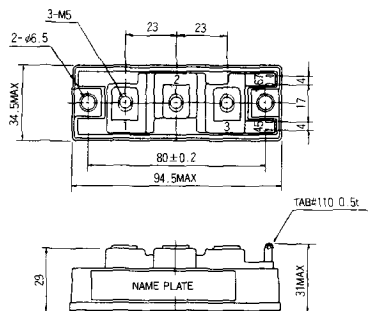


TS-7

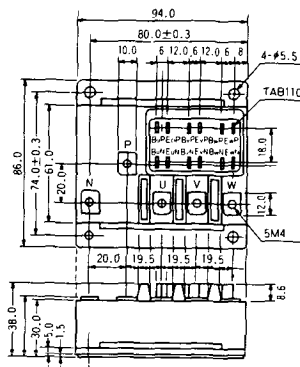




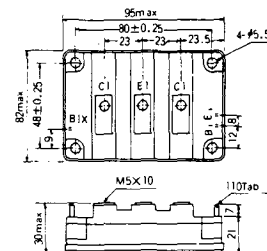
S-94B2A



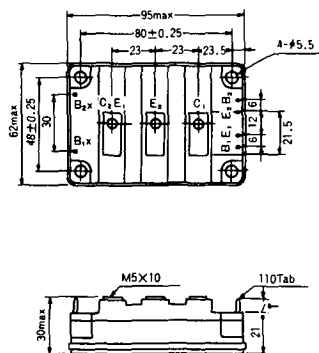
S-94D1A



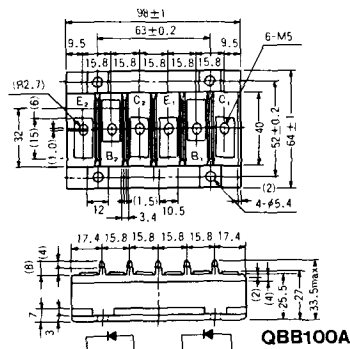
S-95A1A



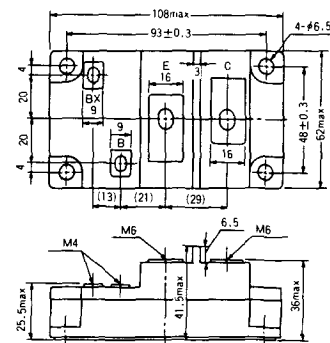
S-95B1A



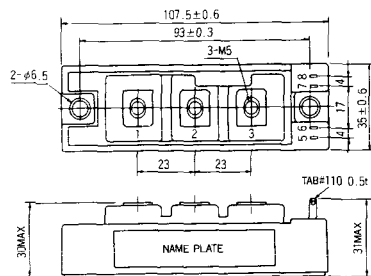
S-98B1B



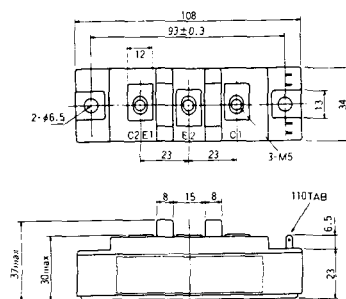
S-108A2A



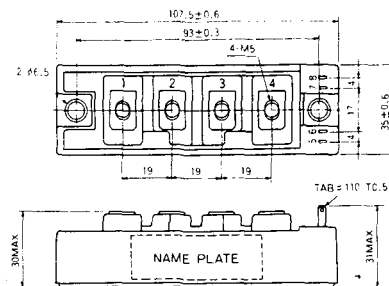
S-108B1A



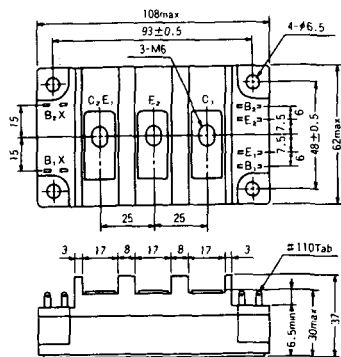
S-108B1B



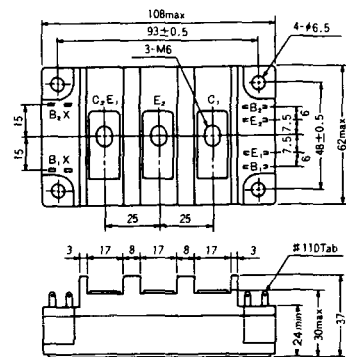
S-108B1C



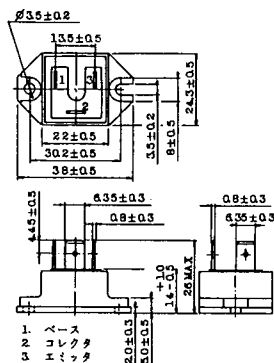
S-108B2A



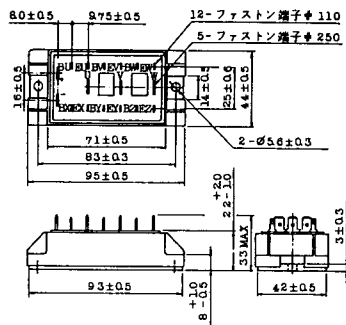
S-108B2B



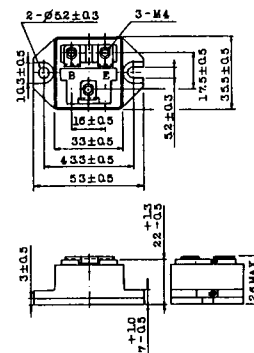
2-22B1A



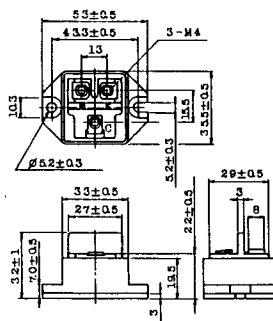
2-27A4A



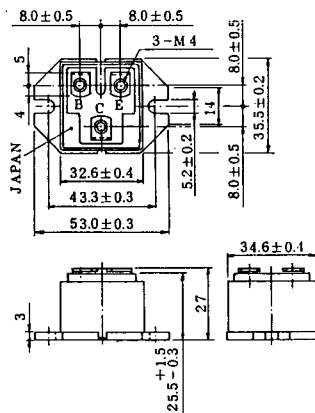
2-33C1A



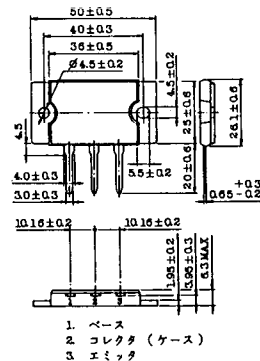
2-33D1A



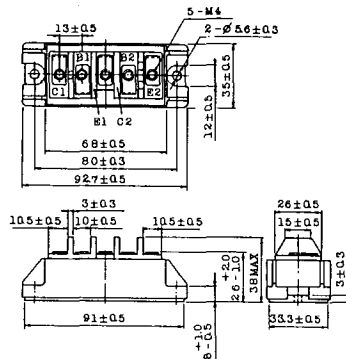
2-33F1A



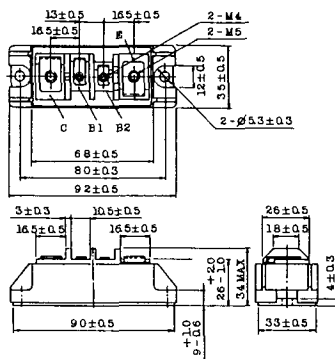
2-37A1A



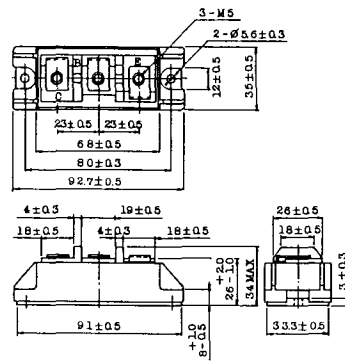
2-68B2A



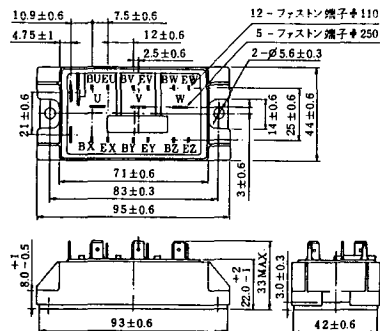
2-68C1A



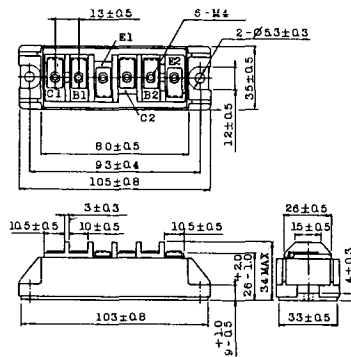
2-68D2A



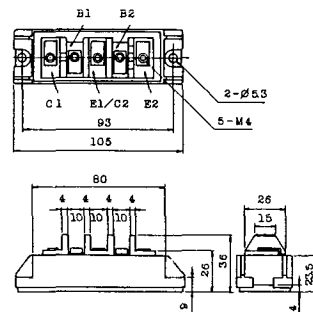
2-72A3A



2-80A1A

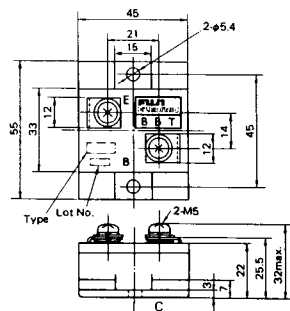


2-80B1A



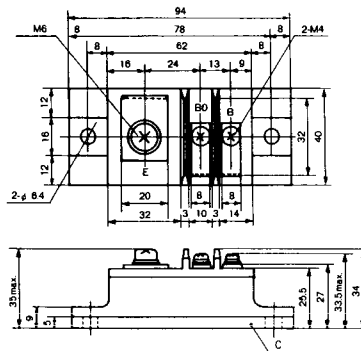
BBT-II

BBTII
1D200A-020



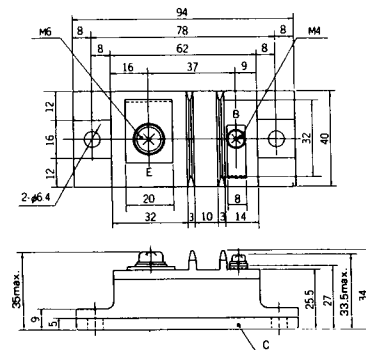
BBT-III

BBTIII
ETN31-055
ETN36-030
ETN36-030
ETN35-030



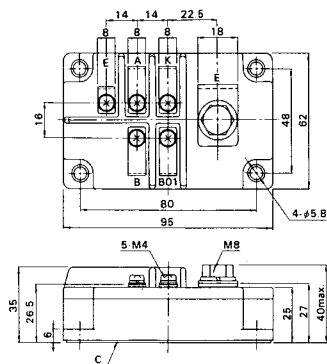
BBT-III

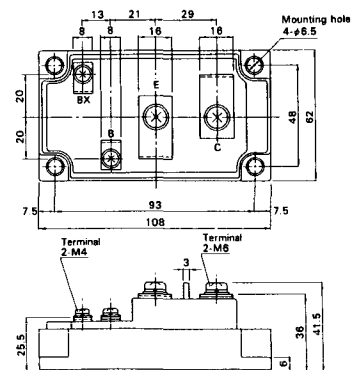
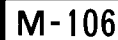
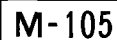
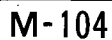
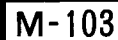
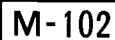
BBTIII
ETN01-055
ET1257



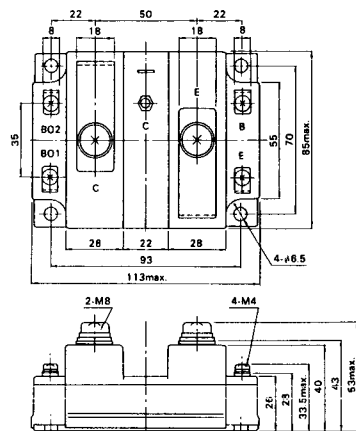
BBT-IV

BBTIV
1D500A-030

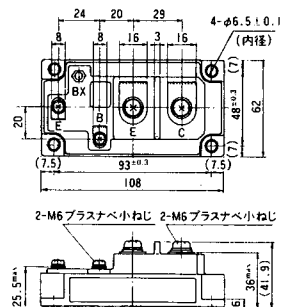




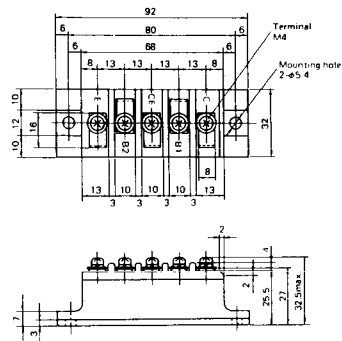
M-107



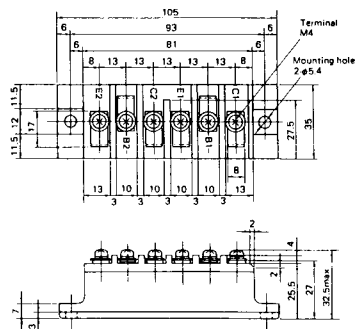
M-116



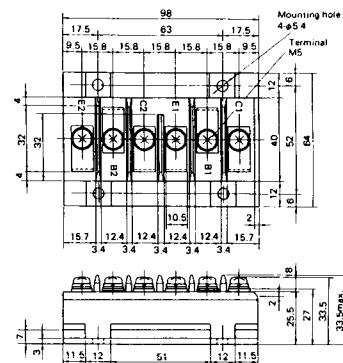
M-201



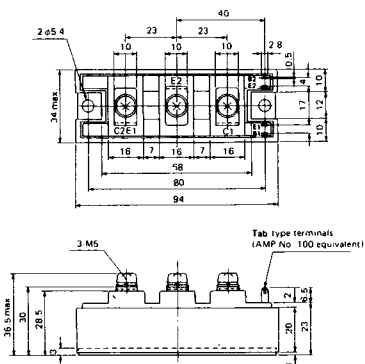
M-202



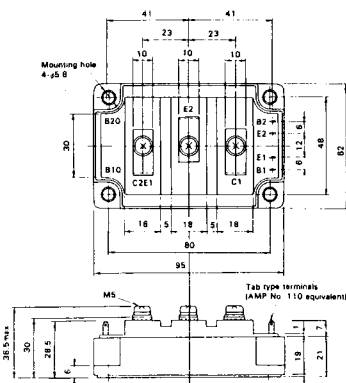
M-203



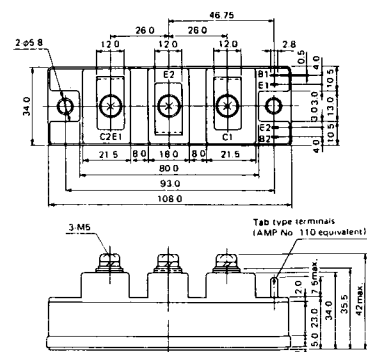
M-204



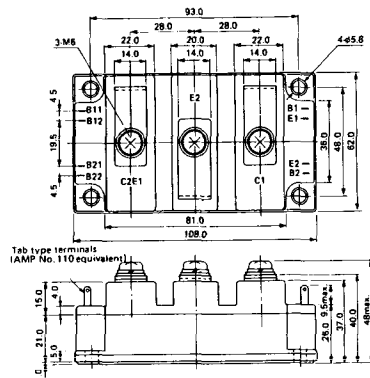
M-205



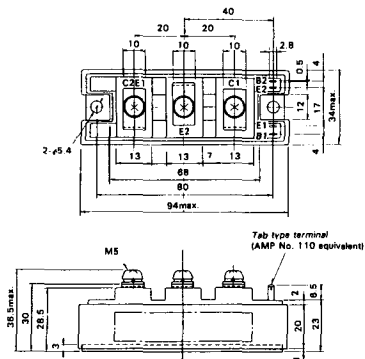
M-206



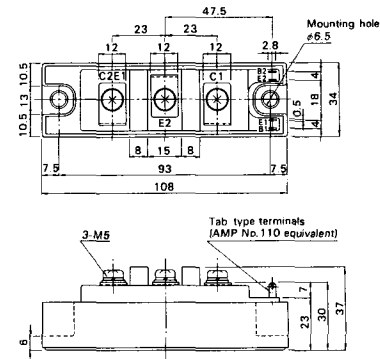
M-207



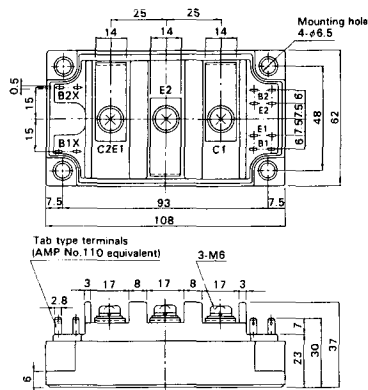
M-208



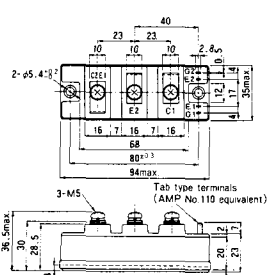
M-209



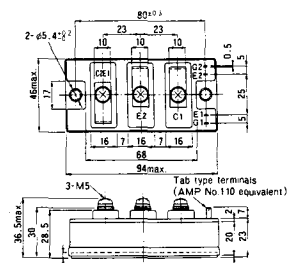
M-210



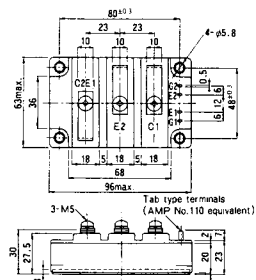
M-211



M-212

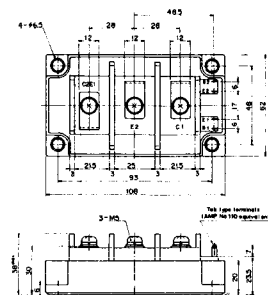


M-213

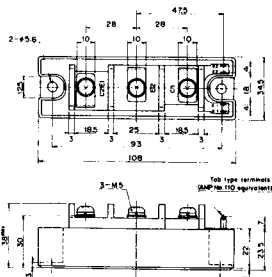


M-214

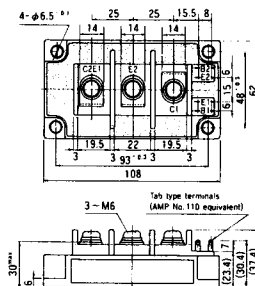
M-215



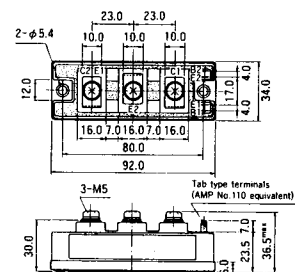
M-216



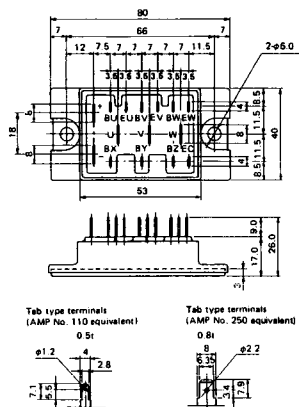
M-217



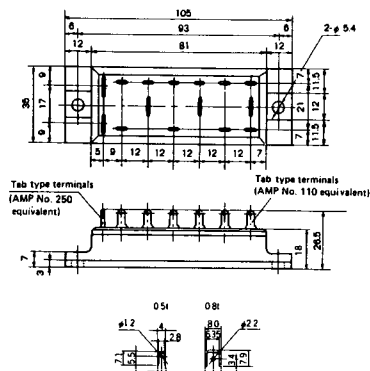
M-218



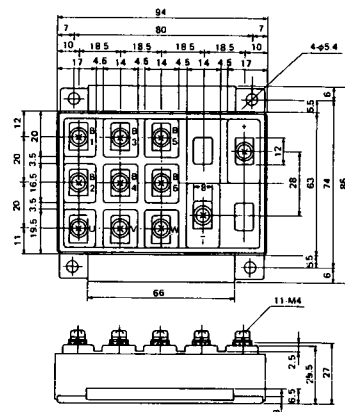
M-601



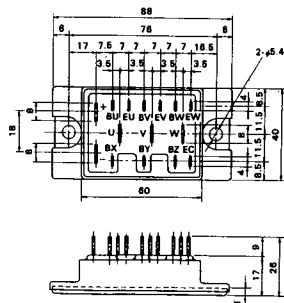
M-602



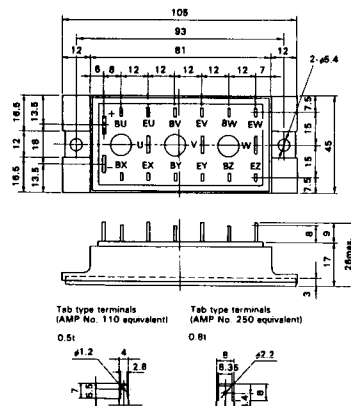
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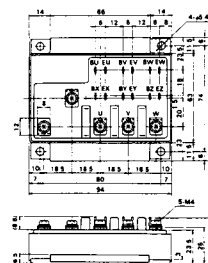
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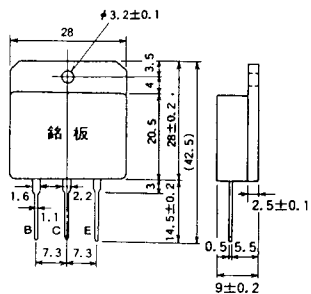
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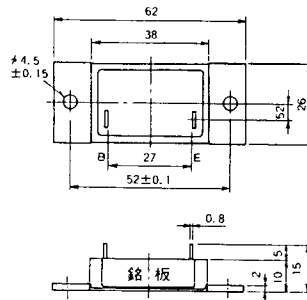
M-606



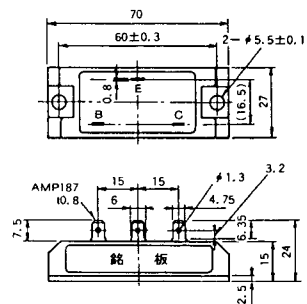
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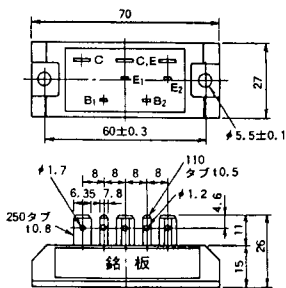
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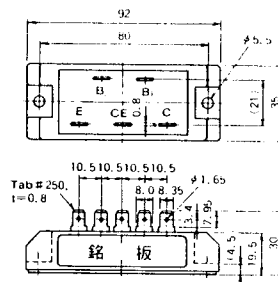
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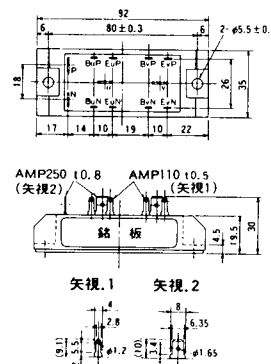
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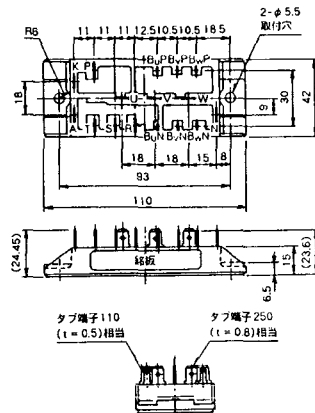
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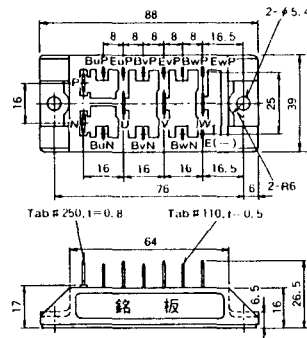
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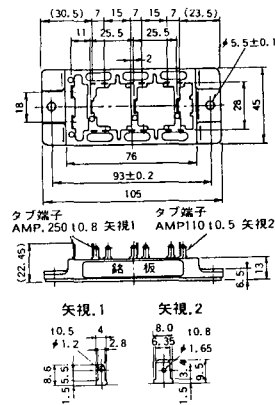
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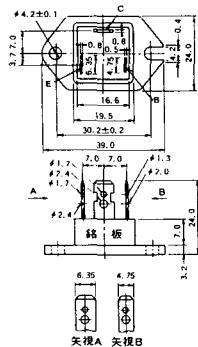
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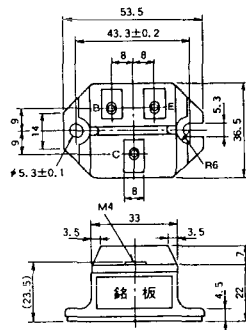
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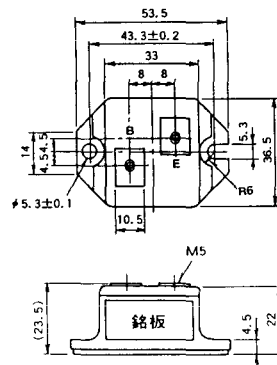
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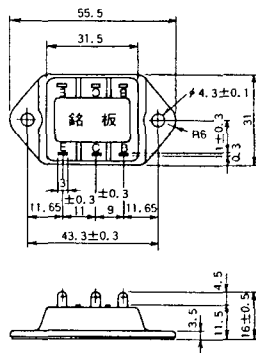
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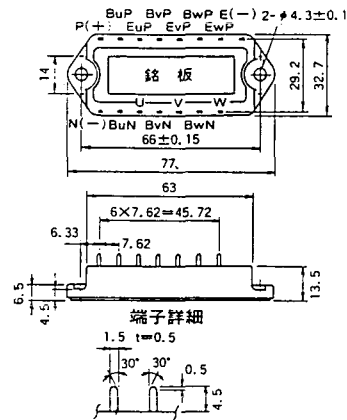
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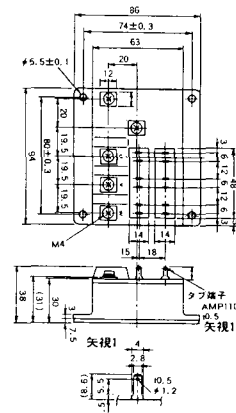
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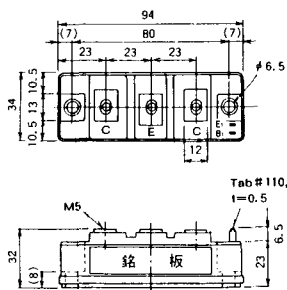
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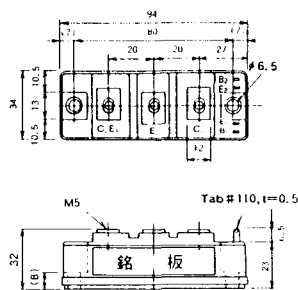
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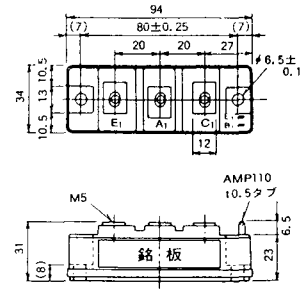
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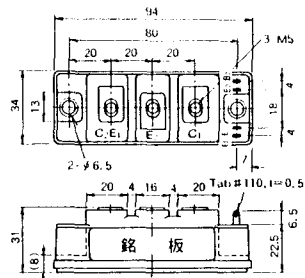
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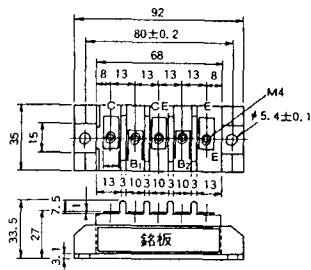
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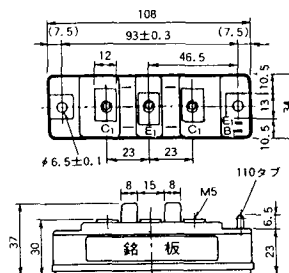
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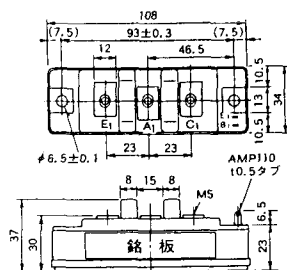
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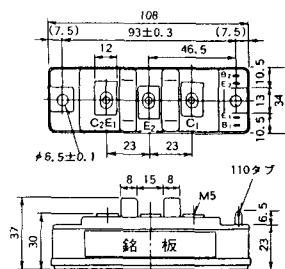
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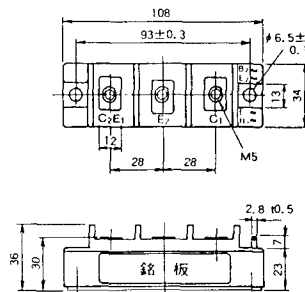
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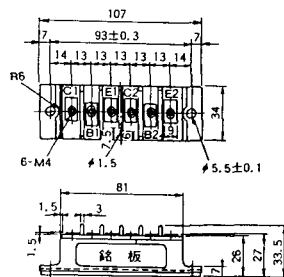
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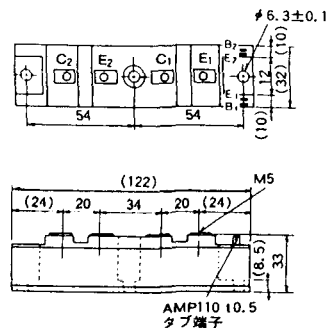
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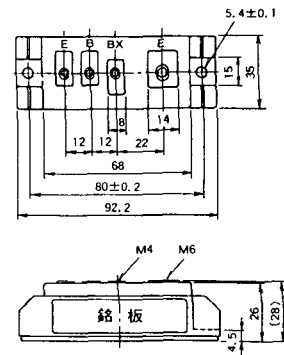
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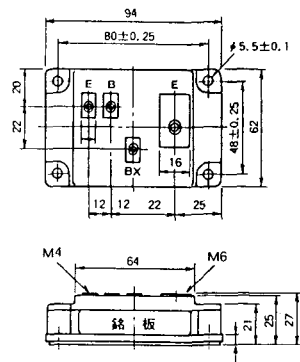
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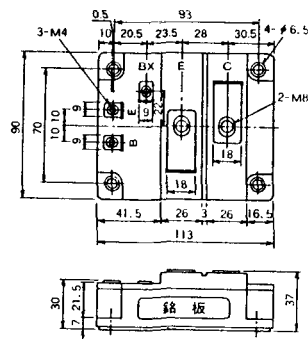
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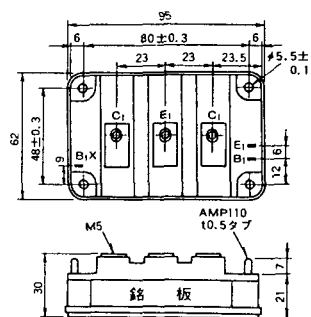
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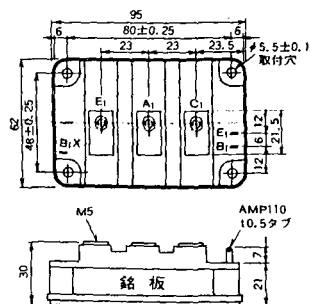
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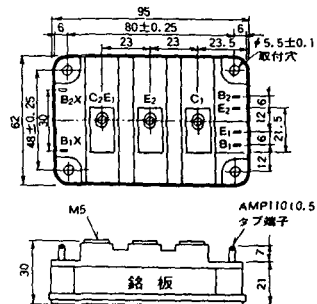
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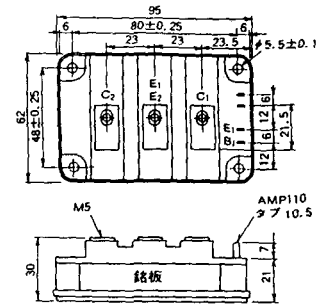
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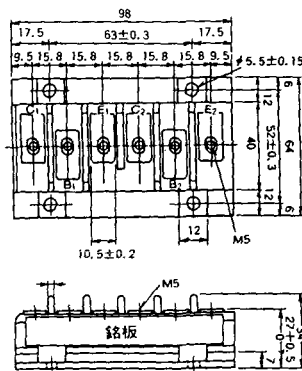
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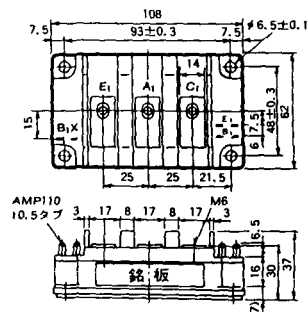
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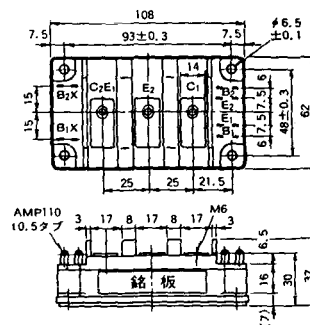
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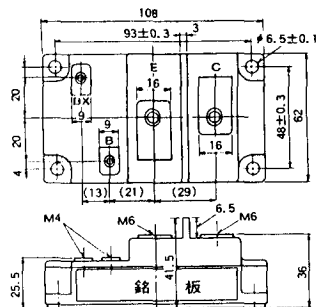
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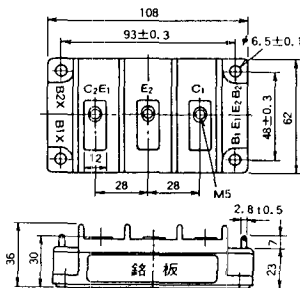
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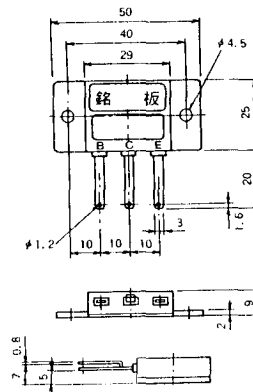
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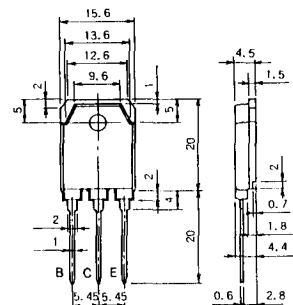
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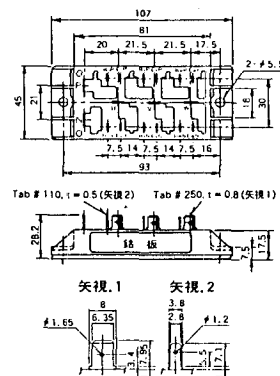
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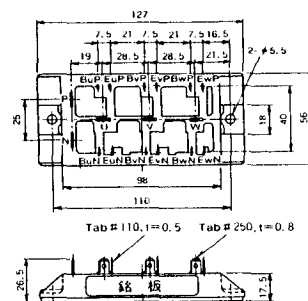
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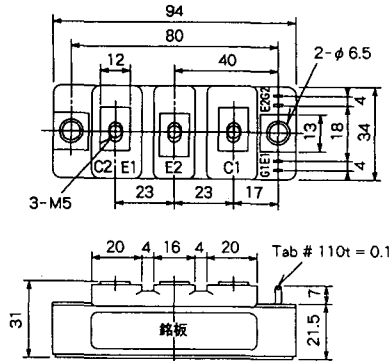
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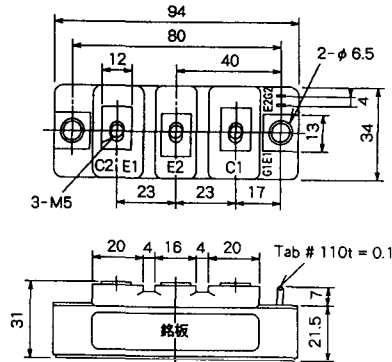
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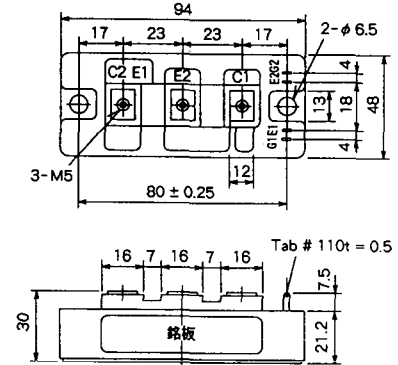
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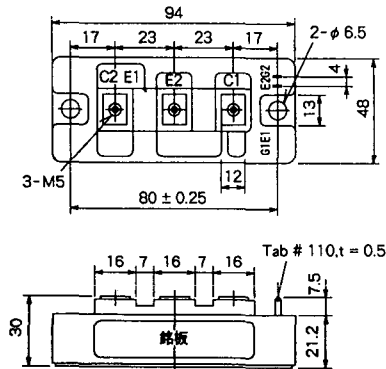
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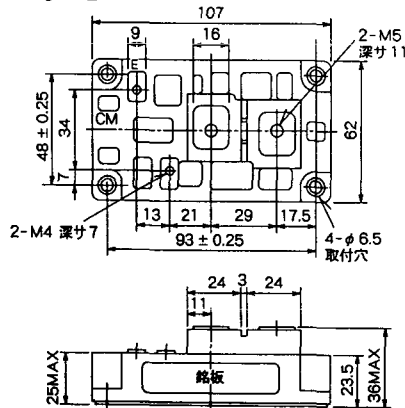
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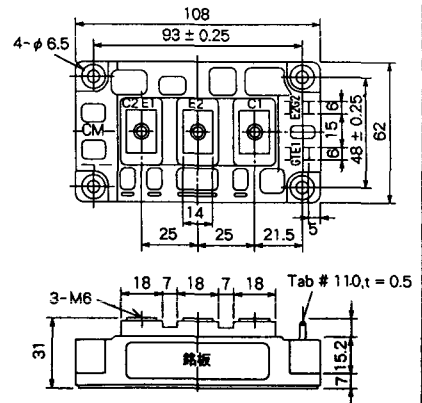
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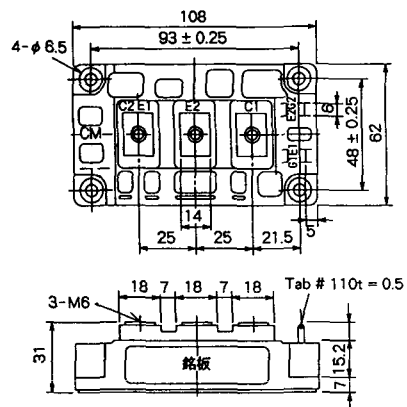
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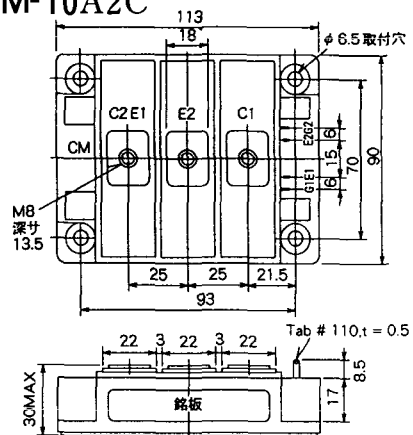
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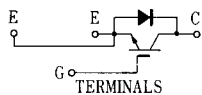
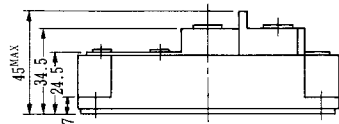
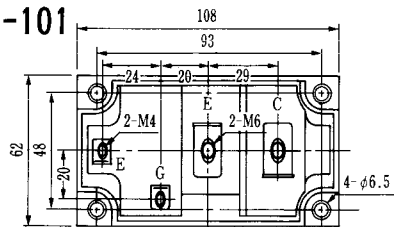
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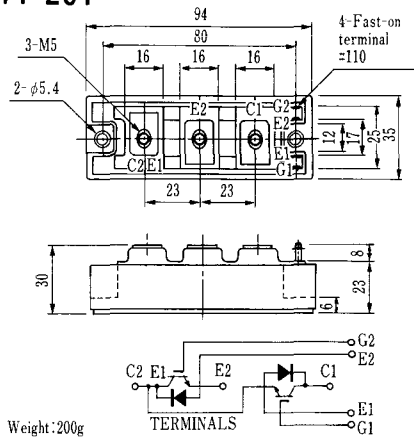
H-101



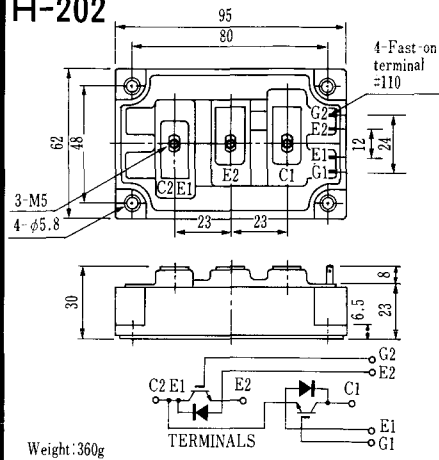
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TERMINALS

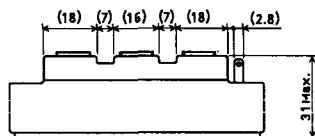
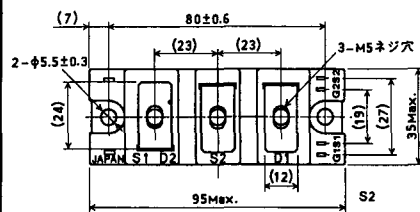
H-201



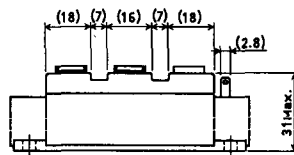
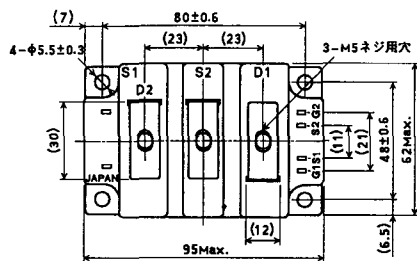
H-202



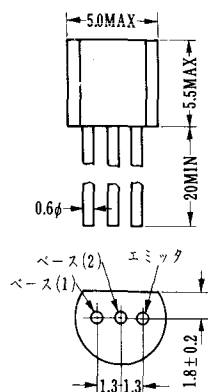
LF-J



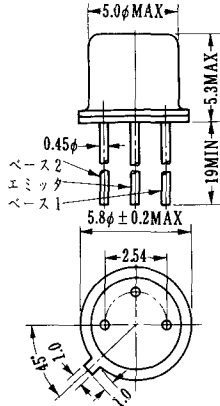
LF-K



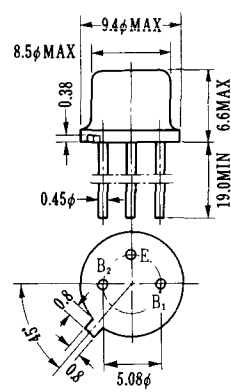
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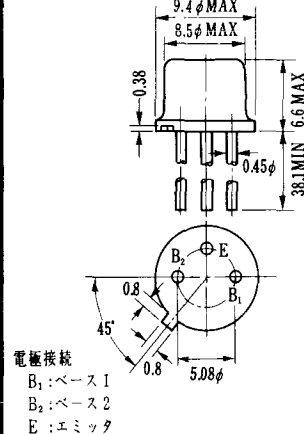
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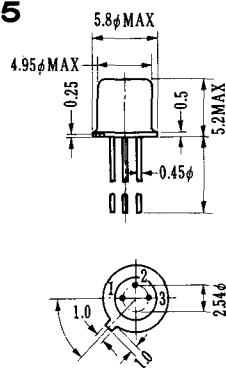
U-3



U-4

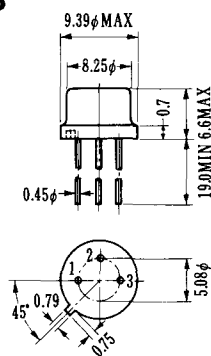


U-5



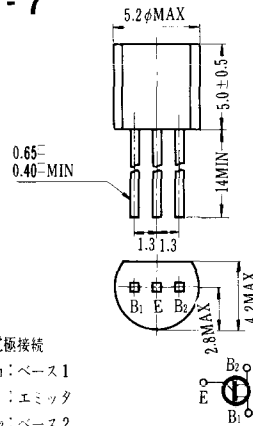
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



1. BASE (2)
2. EMITTER
3. BASE (1)

U-7



U-8

