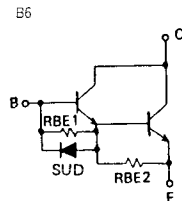
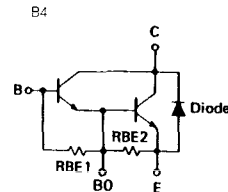
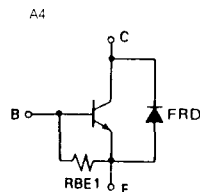


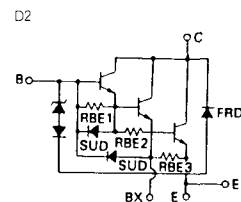
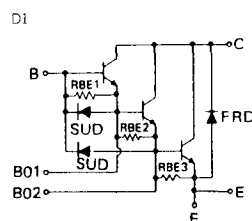
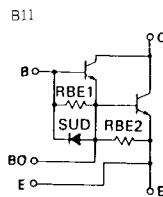
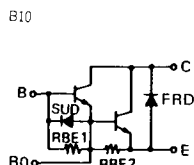
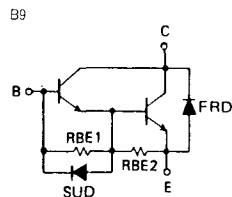
- ダーリントン・トランジスタ2個内蔵
- フリーホイール・ダイオード付
- 絶縁形
- 直流電流増幅率は70以上(定格電流にて)

■等価回路



注1. 1トランジスタ当たり。 注2. AC, 1分間。 注3. #印は V_{CE0} (I_C の単位はmA)。

型 名	最 大 定 格											電 氣 的 特 性									
	V _{CE0} (V)	V _{CE0 (SUS)} V _{CE0} # (V)	V _{BE0} (V)	I _C (A)	I _{CP} (ImA)	I _B (A)	I _F (A)	P _C		T _J (℃)	T _{stg} (℃)	V _{iso} (V)	I _{CE0}		V _{CE0 (SUS)}		h _{FE}				
								(注1) (W)	Total (W)				I _{CE0} (mA)	V _{CE} (V)	I _{EB0} (mA)	V _{EB} (V)	V _{CE0} (注3) (V)	I _C (A)	h _{FE} 最小	V _{CE} (V)	I _C (A)
1D200A-020	300	300 #	6	200	400	8.0		800		150	-40~125		1.0	300	200	6	250	1.0	100	5	200
1D500A-030	400	400 #	10	500	1000	20		2500		150	-40~125		1.0	400	800	10	300	1.0	500	2	500
1D1200A-120	1200	1200 #	10	200	400	12	200	1400		150	-40~125	2500	2.0	1200	400	10	1200 #	2	70	5	200
1D1200A-140	1400	1400 #	10	200	400	12	200	1400		150	-40~125	2500	2.0	1200	400	10	1400 #	30	70	5	200
1D1200Z-100	1000	1000 #	10	200	400	10	200	1400		150	-40~125	2500	4.0	1000	800	10	1000 #	4	100	5	200
1D1200Z-120	1200	1200 #	10	200	400	12	200	1400		150	-40~125	2500	4.0	1200	800	10	1200 #	4	100	5	200
1D1240A-055	600	550	6	240	480	12	240	1000		150	-40~125	2500	2.0	600	600	6	550	2.0	70	5	240
1D1300A-120	1200	1200 #	10	300	600	16	300	2000		150	-40~125	2500	2.0	1200	400	10	1200 #	2	70	5	300
1D1300A-140	1400	1400 #	10	300	600	16	300	2000		150	-40~125	2500	2.0	1200	400	10	1400 #	30	70	5	300
1D1300D-100	1000	1000 #	10	300	600	16	300	2000		150	-40~125	2500	1.0	1000	800	10	800	5.0	100	5	300
1D1300Z-100	1000	1000 #	10	300	600	16	300	2000		150	-40~125	2500	4.0	1000	800	10	1000 #	4	100	5	300
1D1300Z-120	1200	1200 #	10	300	600	16	300	2000		150	-40~125	2500	4.0	1200	800	10	1200 #	4	100	5	300
1D1400A-120	1200	1200 #	10	400	800	32		3120		150	-40~125	2500	4.0	1200	600	10	1200 #	4	100	5	400
1D1400D-100	1000	800	10	400	800	16	400	2400		150	-40~125	2500	1.0	1000	800	10	800	5.0	70	5	400
1D1480A-055	600	550	6	480	960	16	480	2000		150	-40~125	2500	4.0	600	800	6	550	5.0	70	5	480
ET1275	1000	1000 #	6	15	30	3.0		120		150	-40~125	2500	1.0	1000	200	6	700	1.0	20	5	12
ETG81-050A	600	450	6	30	60	2.0	30	200		150	-40~125	2000	1.0	600	150	6	450	1.0	100	5	30
ETK81-050	600	450	6	50	100	3.0	50	300		150	-40~125	2000	1.0	600	200	6	450	1.0	100	5	50
ETK85-050	600	450 #	6	75	150	4.5	75	350		150	-40~125	2000	1.0	600	200	6	450	1.0	70	5	75
ETL81-050	600	500	6	100	200	6.0	100	600		150	-40~125	2500	1.0	600	300	6	500	1.0	100	5	100



(T _J = 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 _A	スイッチング時間 (μs)			I _{B1}	I _{B2}	I _C	V _F		t _{rr}		R _{th(j-a)} (℃/W)									
V _{CE}	V _{BE}			t _{on}	t _{off}	t _f				(V)	I _F	(μs)	I _F	V _{RR}	di/dt	トランジスタ部	ダイオード部						
最大	最大	(A)	(A)	最大	最大	最大	(A)	(A)	(A)	最大	(A)	最大	(V)	(A/μs)	最大	最大							
2.0	2.5	200	4.0	2.0	12	3.0	4.0	-4.0	200						0.156		B 6	BBT II	FDなし		ID200A-020		
2.0	2.5	500	1.0	2.0	12	4.0	1.0	-1.0	500						0.05		B 11	BBT IV	FDなし		ID500A-030		
2.5	3.5	200	6.0	2.5	15	3.0	6.0	-18	200	2.0	200	0.6	200	-6	200	0.089	0.3	D 1	M 10 5	UL : E 8 2 9 8 8 (M)		ID1200A-120	
2.5	3.5	200	6.0	3.0	15	3.0	6.0	-18	200	2.0	200	0.6	200	-6	200	0.089	0.22	D 1	M 10 5			ID1200A-140	
2.8	3.5	200	2.8	2.5	12	2.0	2.8	-4.0	200	1.8	200	0.7	200	-6	200	0.089	0.35	D 2	M 10 6			ID1200Z-100	
2.8	3.5	200	2.8	3.0	15	2.0	2.8	-4.0	200	2.0	200	0.8	200	-6	200	0.089	0.35	D 2	M 10 6			ID1200Z-120	
2.0	2.5	240	7.0	2.0	12	3.0	7.0	-7.0	240	1.5	240				0.125	0.3	B 10	M 10 4			ID1240A-055		
2.5	3.5	300	8.0	3.0	15	3.0	8.0	-24	300	2.0	300	0.6	300	-6	300	0.062	0.16	D 1	M 10 5	UL : E 8 2 9 8 8 (M)		ID1300A-120	
2.5	3.5	300	8.0	3.0	15	3.0	8.0	-24	300	2.0	300	0.6	300	-6	300	0.062	0.16	D 1	M 10 5			ID1300A-140	
2.5	3.5	300	6.0	2.5	15	3.0	6.0	-18	300	1.8	300	0.7	300	-6	300	0.062	0.16	D 1	M 10 5			ID1300D-100	
2.8	3.5	300	4.0	2.5	12	2.0	4.0	-6.0	300	1.8	300	0.7	300	-6	300	0.063	0.3	D 2	M 10 6			ID1300Z-100	
2.8	3.5	300	4.0	3.0	15	2.0	4.0	-6.0	300	2.0	300	0.8	300	-6	300	0.063	0.3	D 2	M 10 6			ID1300Z-120	
2.5	3.5	400	8.0	3.0	15	3.0	8.0	-24	400			0.6	400	-6	400	0.04	0.16	D 1	M 10 7			ID1400A-120	
2.5	3.5	400	8.0	2.5	15	3.0	8.0	-24	400	1.8	400	0.7	400	-6	400	0.052	0.16	D 1	M 10 5			ID1400D-100	
2.0	2.5	480	14	2.0	12	3.0	14	-14	480	1.5	480				0.0625	0.16	B 10	M 10 5	UL : E 8 2 9 8 8 (M)		ID1480A-055		
2.0	2.5	12	1.0	3.0	15	2.0	1.0	-1.0	12						1.0		B 6	M 10 1	UL : E 8 2 9 8 8 (M)		ET1275		
2.0	2.5	30	0.6	3.0	12	4.0	0.6	-0.6	30	1.5	30	0.6	30	-6	50	0.62	1.6	B 9	M 10 2	UL : E 8 2 9 8 8		ETG81-050A	
2.0	2.5	50	1.0	3.0	12	4.0	1.0	-1.0	50	1.5	50	0.4	50	-6	50	0.41	1.3	B 9	M 10 2	UL : E 8 2 9 8 8 (M)		ETK81-050	
2.0	2.5	75	2.0	2.0	10	2.5	2.0	-2.0	75	1.5	75	0.6	75	-6	75	0.35	0.85	B 9	M 10 2			ETK85-050	
2.0	2.5	100	2.0	3.0	10	3.0	2.0	-2.0	100	1.5	100	0.6	100	-6	100	0.21	0.65	B 10	M 10 3			ETL81-050	

FD-1



FD-2



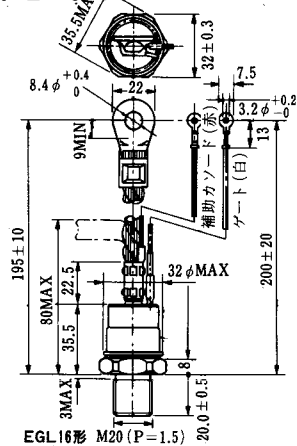
FD-3



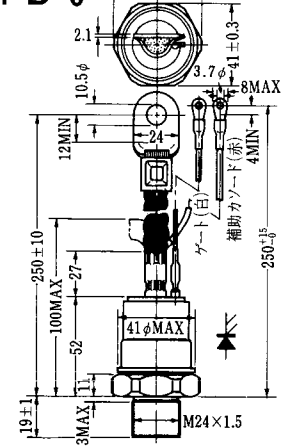
FD-4



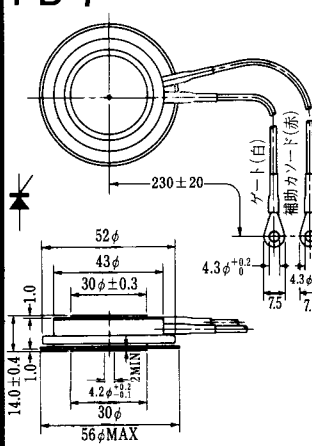
FD-5



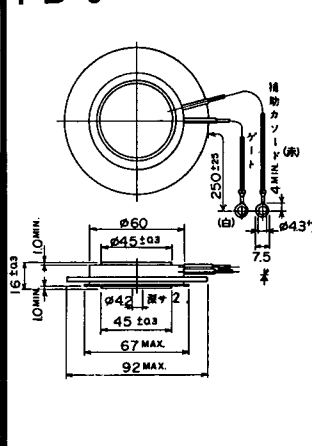
FD-6



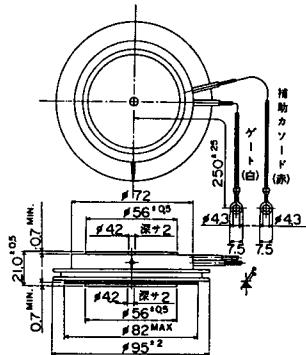
FD-7



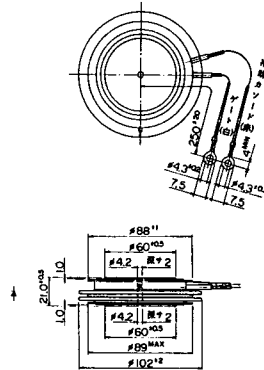
FD-8



FD-9



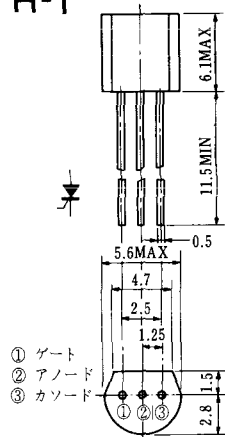
FD-10



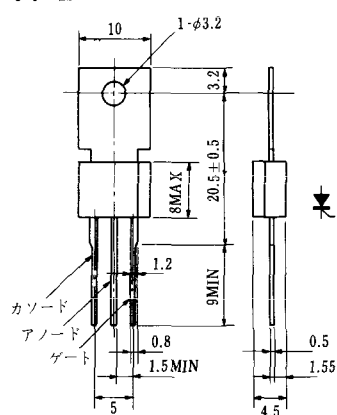
FD-11

FD-12

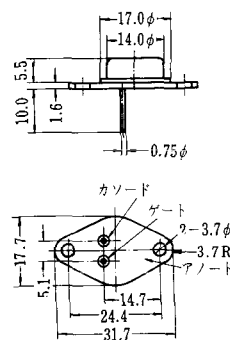
H-1



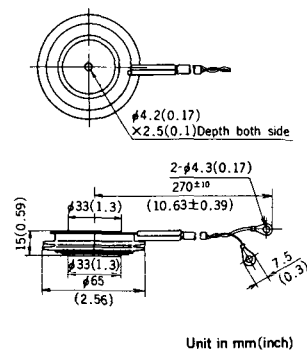
H-2



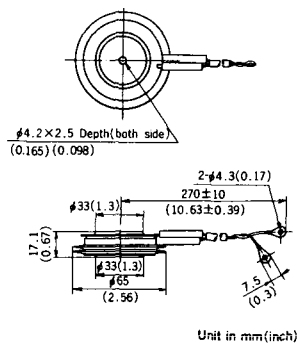
H-3



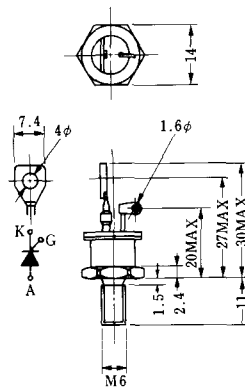
H-4



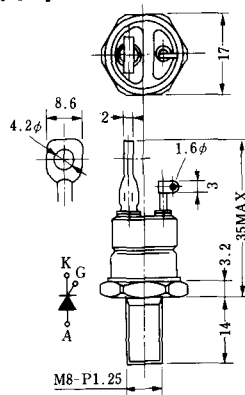
H-5



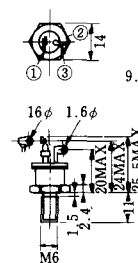
H-6



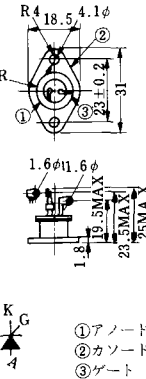
H-7



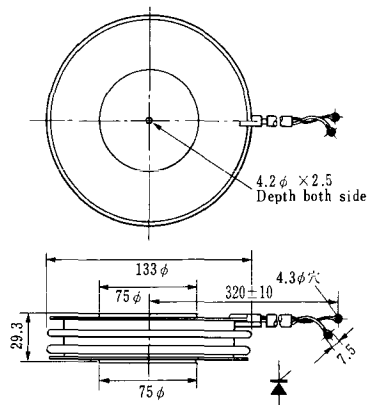
H-8A



H-8B



H-17



H-18



H-19



H-20



H-21



H-22



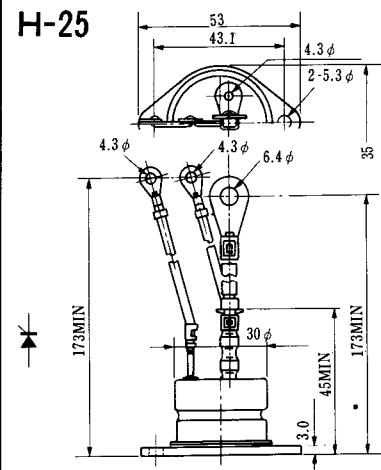
H-23



H-24



H-25



H-26



Type	Direction of polarity
CA12	

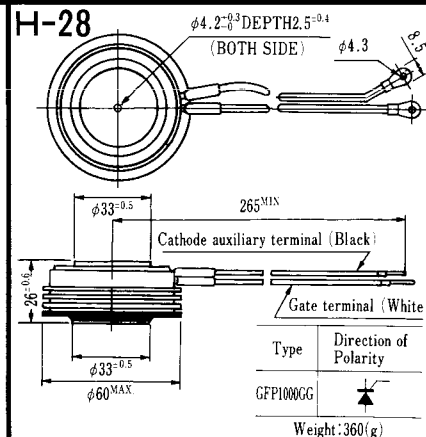
H-27



Type	Direction of polarity
CF11V	

(注) CC11V: 400 ± 10
CF11V: 250 ± 10

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



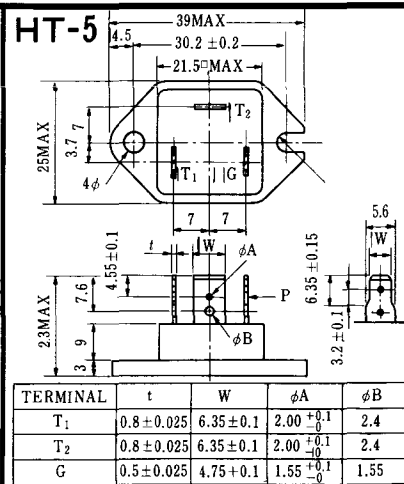
HT-3



HT-4



HT-5



《寸法図単位：mm》

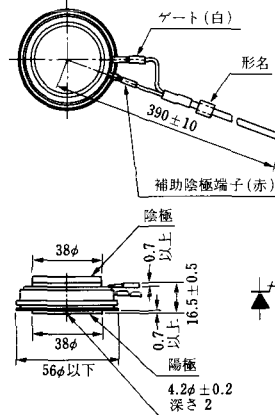
M-1



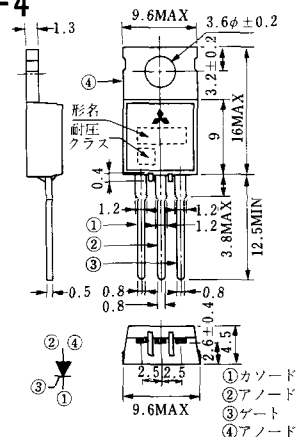
M-2



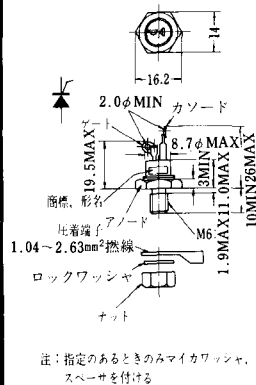
M-3



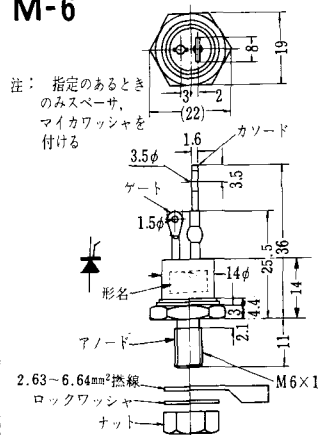
M-4



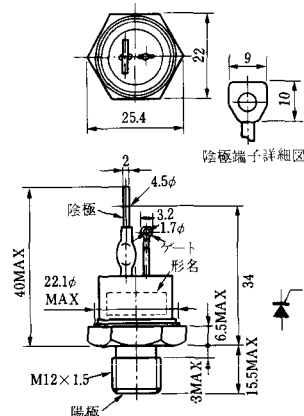
M-5



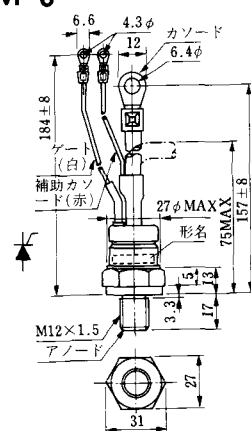
M-6



M-7



M-8



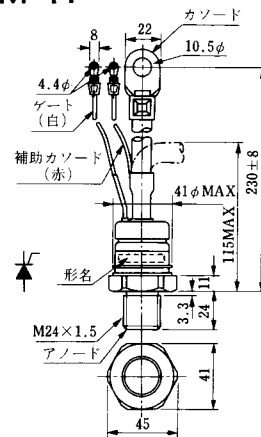
M-9



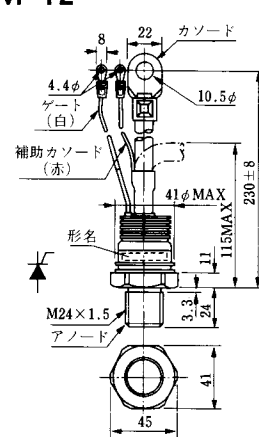
M-10



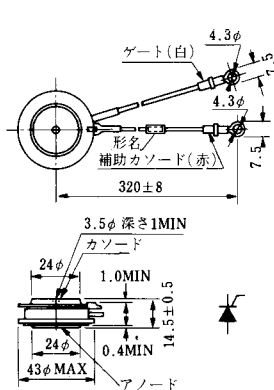
M-11



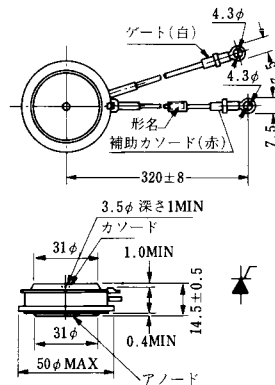
M-12



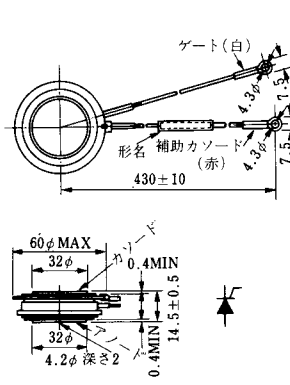
M-13



M-14



M-15



M-16



M-17



M-18



M-19



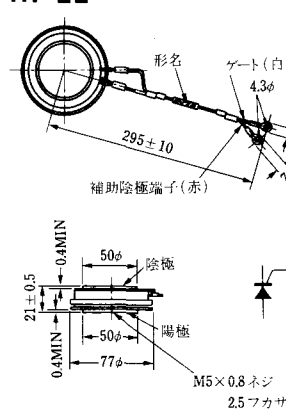
M-20



M-21



M-22



M-23



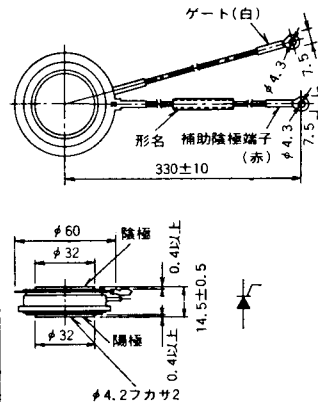
M-24



M-25



M-26



M-27



M-28



M-29



M-30



M-31



M-32



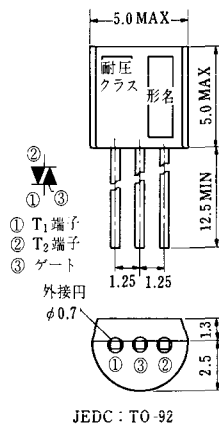
M-33



M-34



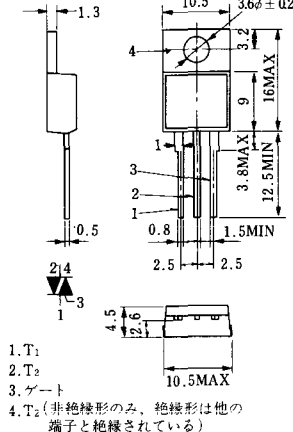
MT-1



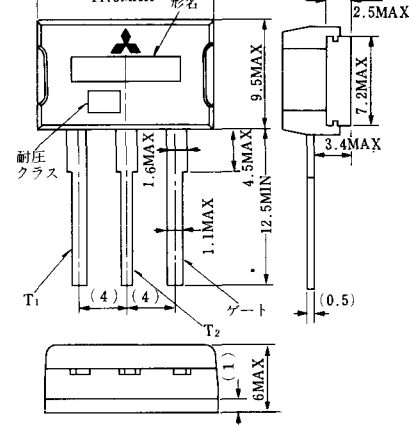
MT-2



MT-3



MT-4



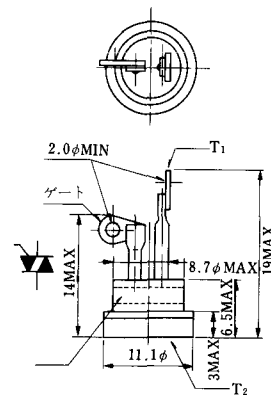
MT-5



MT-6



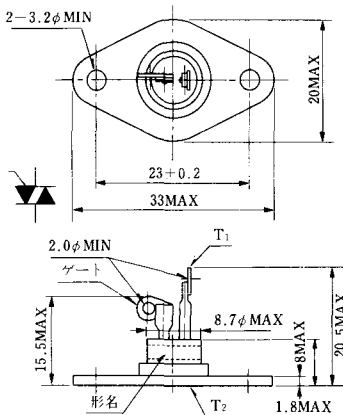
MT-7



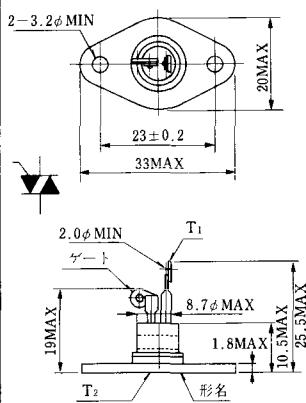
MT-8



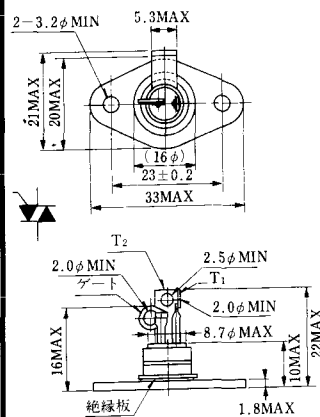
MT-9



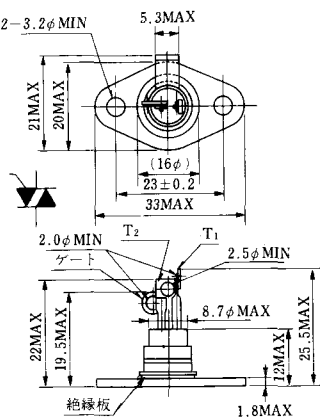
MT-10



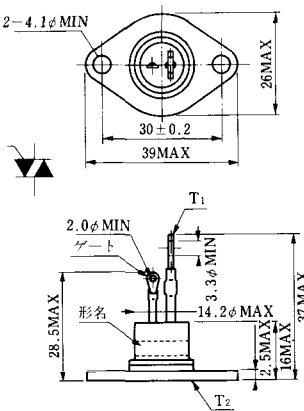
MT-11



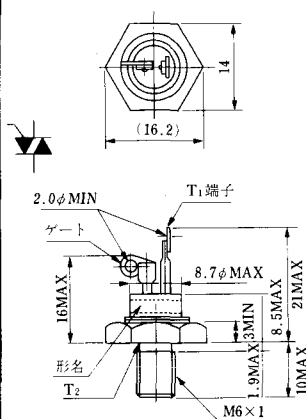
MT-12



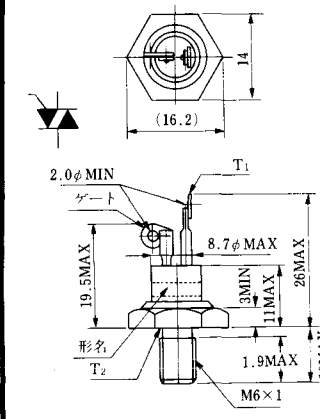
MT-13



MT-14



MT-15



MT-16



MT-17



MT-18



MT-19



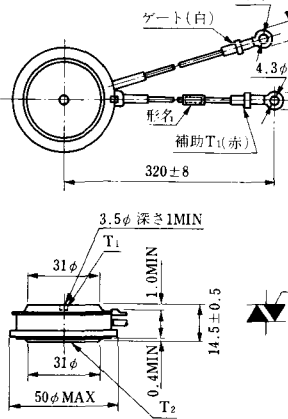
MT-20



MT-21



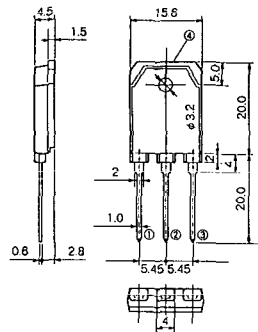
MT-22



MT-23



MT-24



- ① T1 端子
- ② T2 端子
- ③ ゲート 端子
- ④ T2 端子

TO - 3P

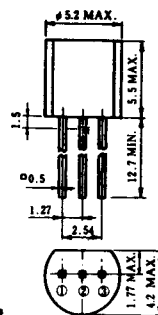
N-1



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

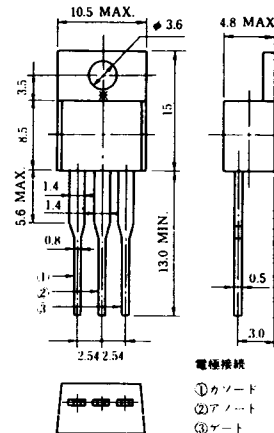
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-4



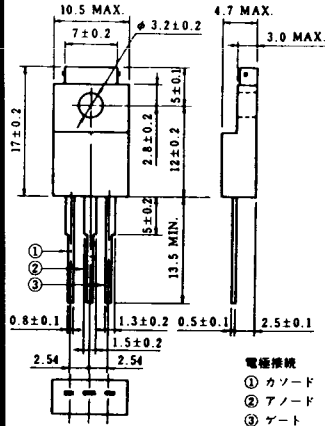
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



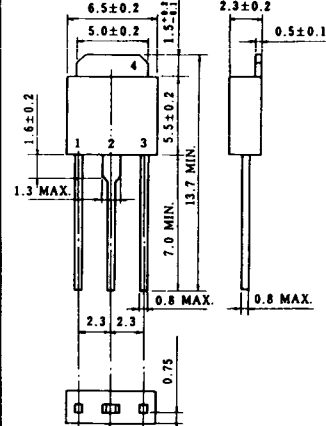
N-6



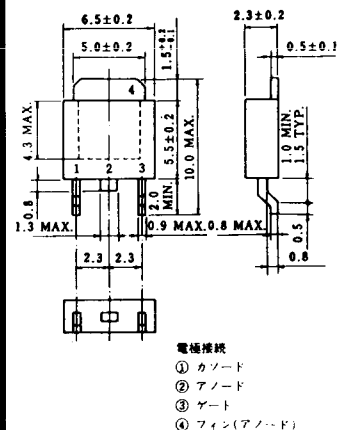
電極接続

- 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

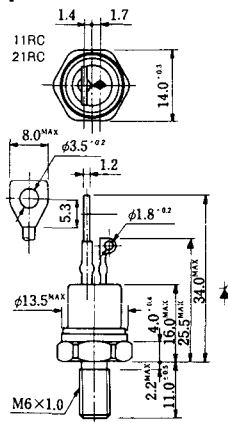


電極接続

1. カソード
2. アノード
3. ゲート

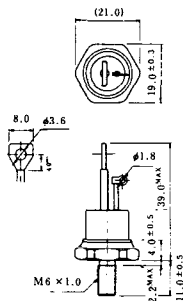
JEDEC: TO-202AA

NI-1



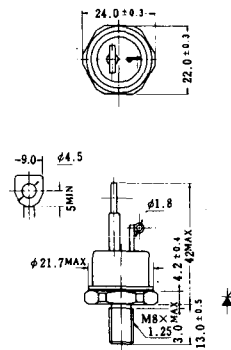
NI-2

29RD



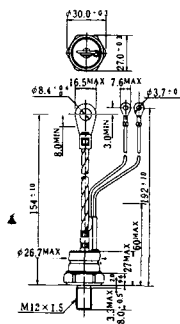
NI-3

39RC
59RC
39RF
59RF



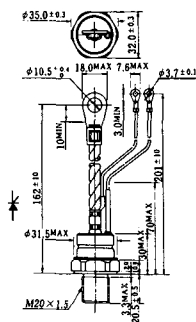
NI-4

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



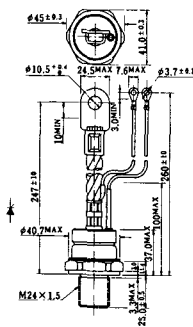
NI-5

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



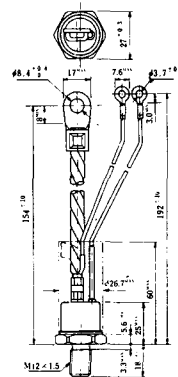
NI-6

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



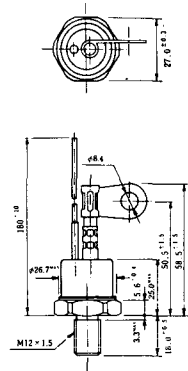
NI-7

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



NI-8

89RW
129RW



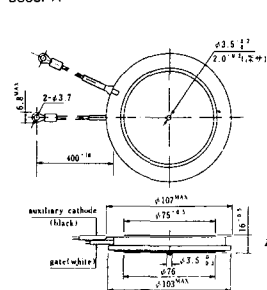
NI-16

503PLF
503PLH



NI-17

3003PA



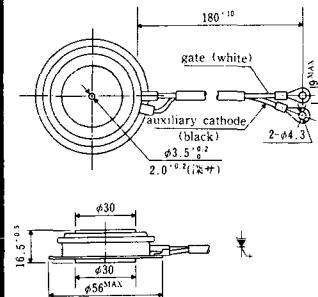
NI-18

353PGA「E



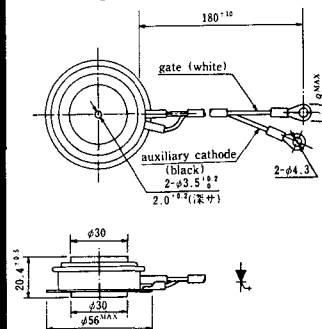
NI-19

603PGA, 603PGA「A, 803PGA



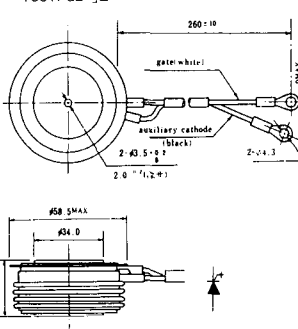
NI-20

603PGA「E



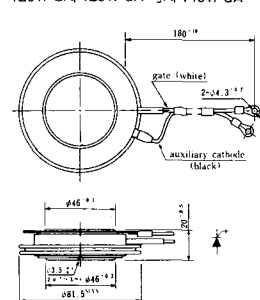
NI-21

1001PGB「E



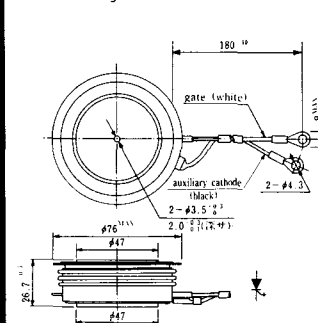
NI-22

1201PGA, 1201PGA「A, 1401PGA



NI-23

1201PGA「E



NI-24

2001PGB^r JE



NI-25

NI-26

NT-1



電極接続
① T₁
② ゲート
③ T₂

NT-2



電極接続
① T₁
② ゲート
③ T₂

NT-3



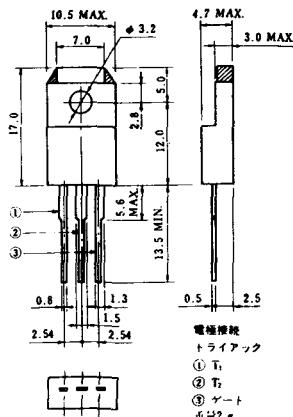
電極接続
① T₁
② T₂
③ ゲート

NT-4



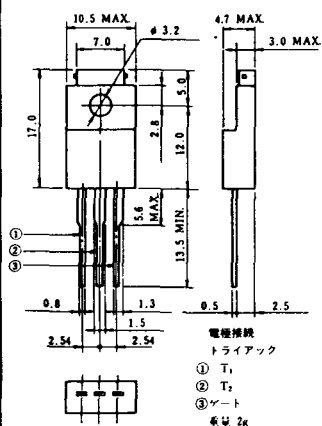
電極接続
① T₁
② T₂
③ G

NT-5



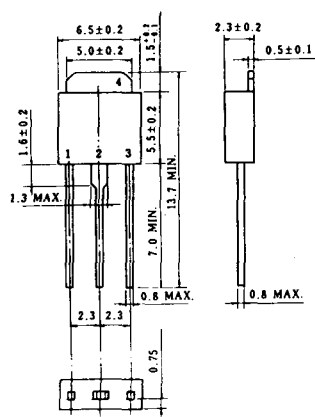
電極接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-6

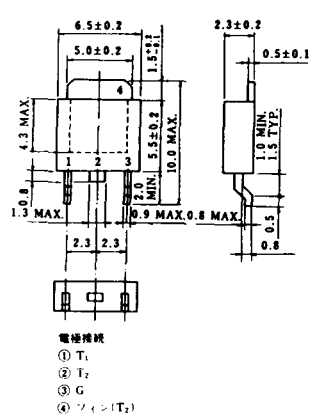


電極接続
トリアック
① T₁
② T₂
③ ゲート
※ 2g

NT-7



NT-8



電極接続
① T₁
② T₂
③ G
④ フォイン(T₂)

S-1



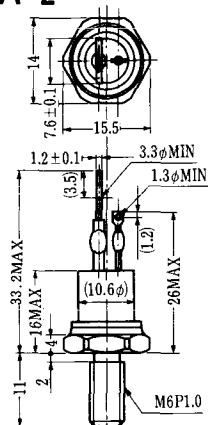
ST-1



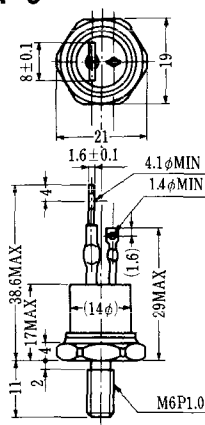
SA-1



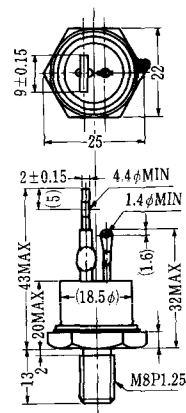
SA-2



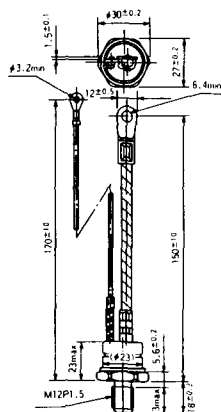
SA-3



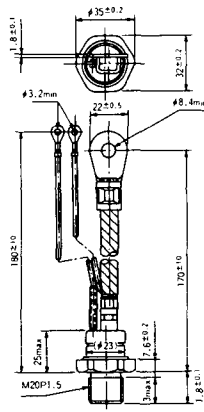
SA-4



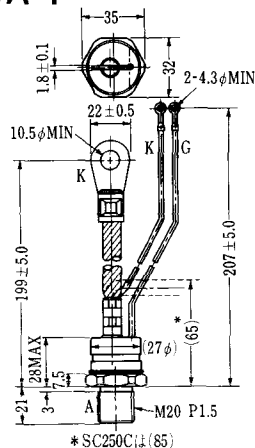
SA-5



SA-6

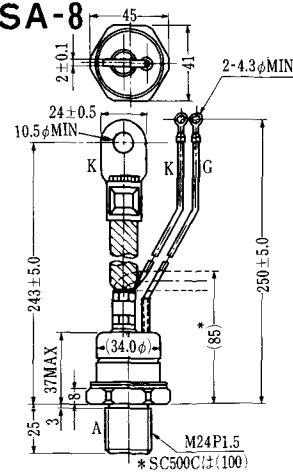


SA-7



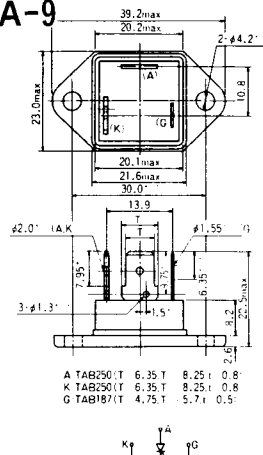
* SC250C (1:85)

SA-8

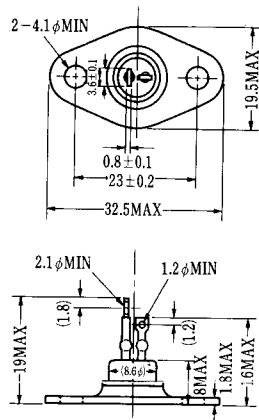


* SC500C (1:100)

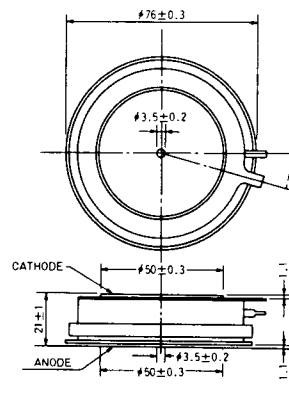
SA-9



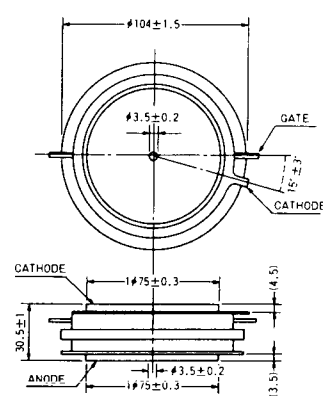
SA-10



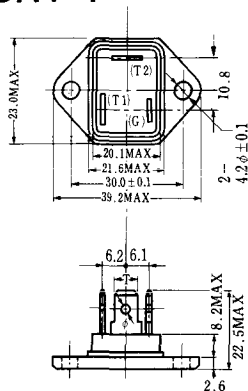
SA-11



SA-12

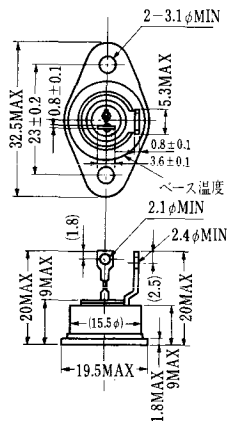


SAT-1



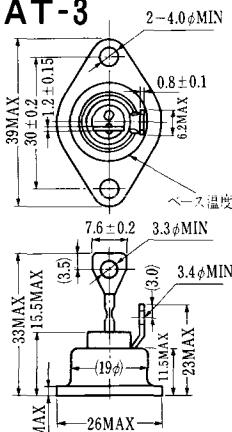
T1端子: ファストン 250 (T=6.35, t=0.8, φ=1.65)
 T2端子: ファストン 250 (T=6.35, t=0.8, φ=1.65)
 G 端子: ファストン 187 (T=4.75, t=0.5, φ=1.3)

SAT-2

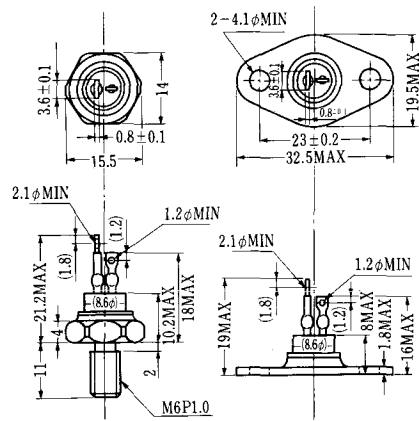


スペース留め

SAT-3

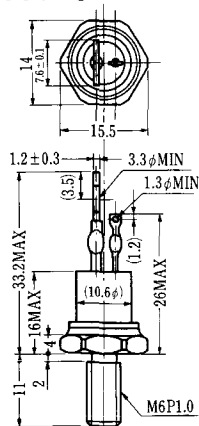


SAT-4



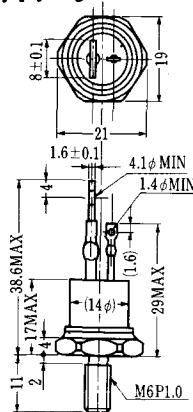
M6P1.0

SAT-5



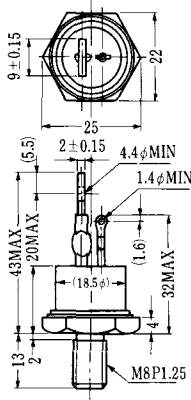
M6P1.0

SAT-6



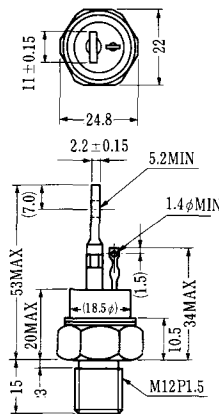
M6P1.0

SAT-7



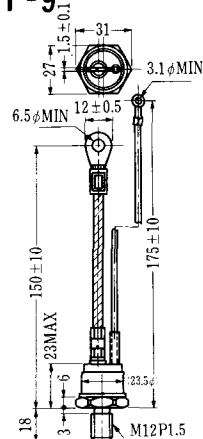
M8P1.25

SAT-8



M12P1.5

SAT-9

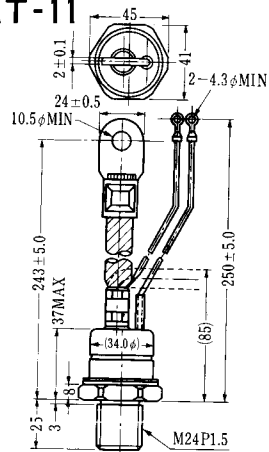


M12P1.5

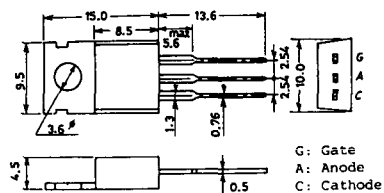
SAT-10



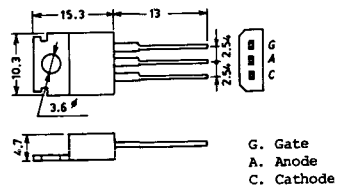
SAT-11



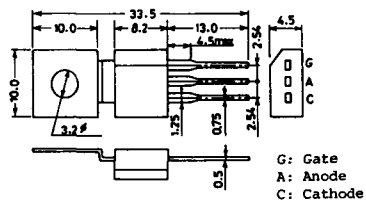
SY-1(1096A)

SY-2₍₁₁₅₁₎

SY-3(1104)



SY-4(1150)



1097A



G: Gate

1102



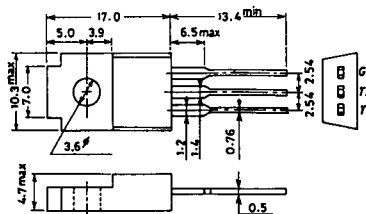
1141



1142



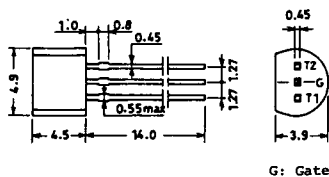
1144



1155



1192A

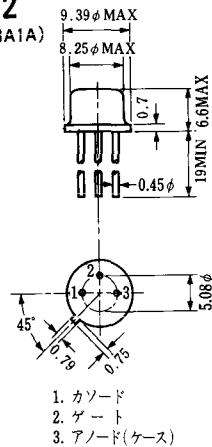


G: Gate

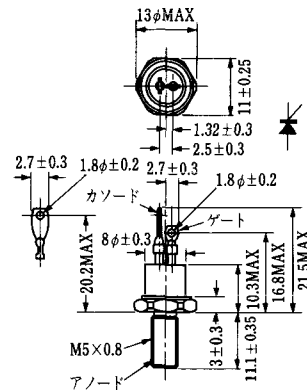
T-1 (13-5A1A)



T-2 (13-8A1A)



T-3 (13-8C1A)



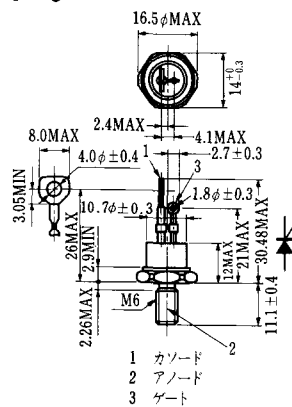
T-4 (13-10A1A)



T-5 (13-10B1A)



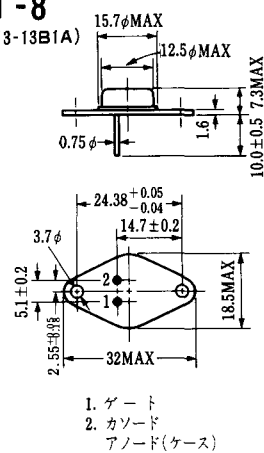
T-6 (13-11D1A)



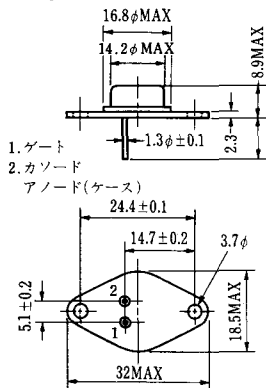
T-7 (13-13A1A)



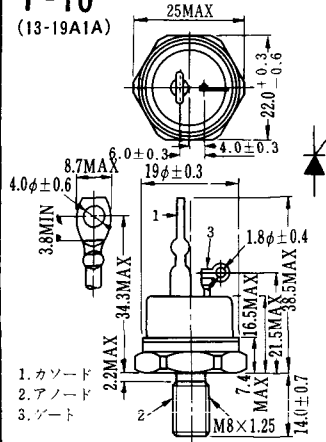
T-8 (13-13B1A)



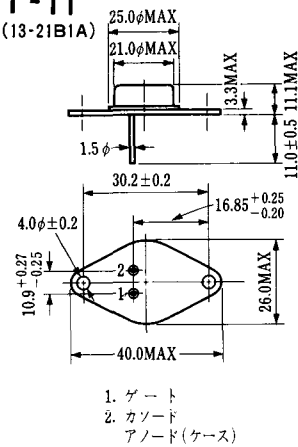
T-9 (13-14A1A)



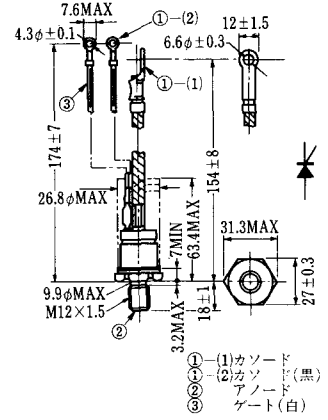
T-10 (13-19A1A)



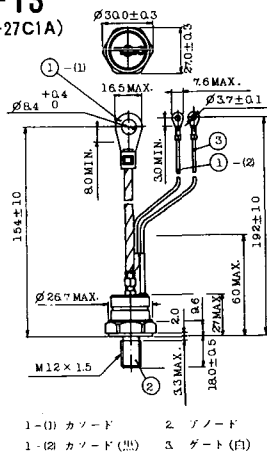
T-11 (13-21B1A)



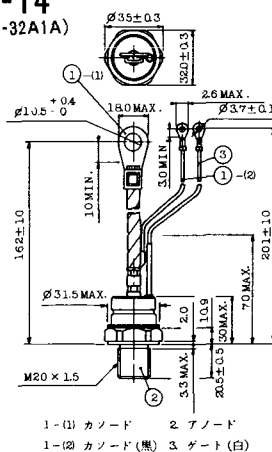
T-12 (13-27B1B)



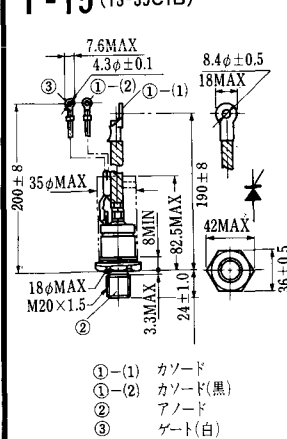
T-13 (13-27C1A)



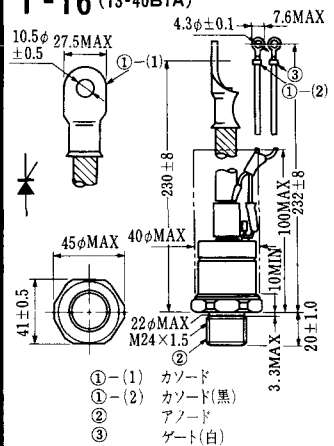
T-14 (13-32A1A)



T-15 (13-35C1B)



T-16 (13-40B1A)



T-17 (13-42A1A)



T-18 (13-45D1A)



T-19 (13-52B1A)



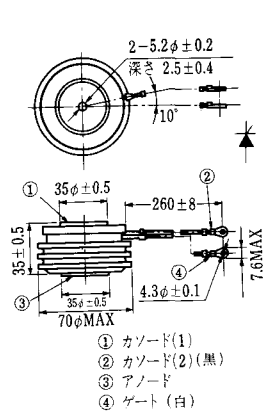
T-20 (13-52C1A)



T-21 (13-60A1A)



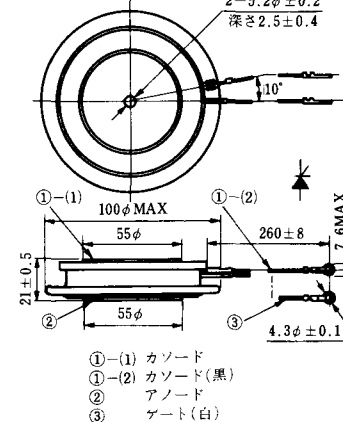
T-22 (13-70C1A)



T-23 (13-78A1A)



T-24 (13-100C1A)



T-25 (13-120A2A)



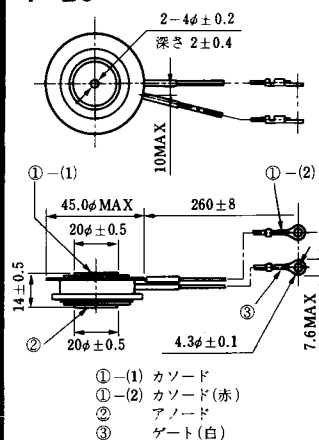
T-26 (13-150A1A)



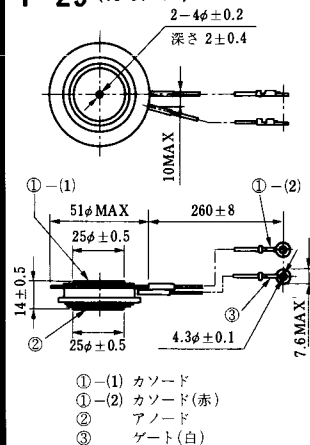
T-27 (13-37A1A)



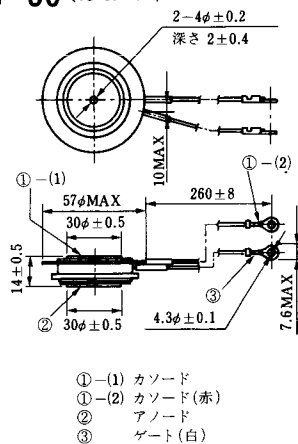
T-28 (13-45E1A)



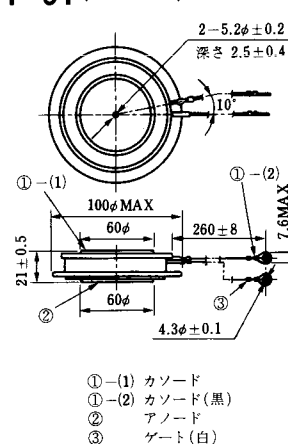
T-29 (13-51A1A)



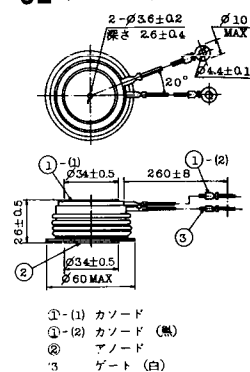
T-30 (13-57A1A)



T-31 (13-100E1A)



T-32 (13-60E3A)



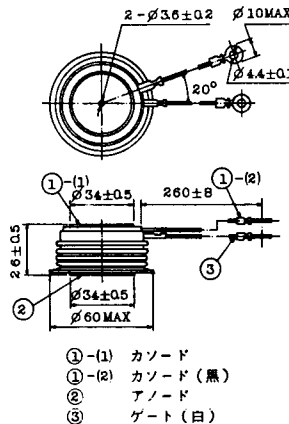
T-41 (13-28A2A)



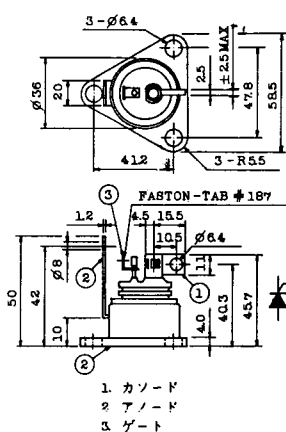
T-42 (13-45F1A)



T-43 (13-60E2A)



T-44 (13-36A1A)



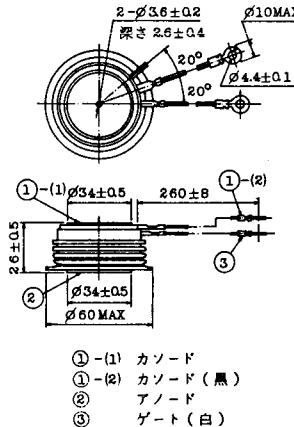
T-45 (13-51B1A)



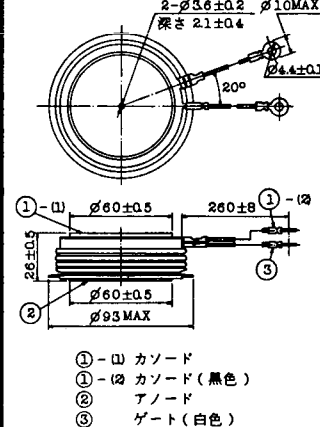
T-46 (13-36B1A)



T-47 (13-60E1A)



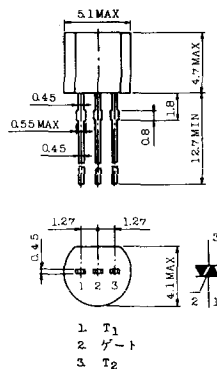
T-48 (13-93C1A)



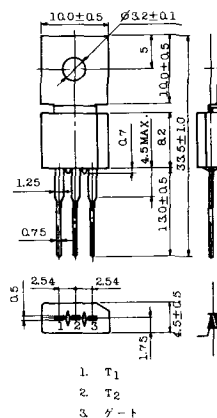
TT-1



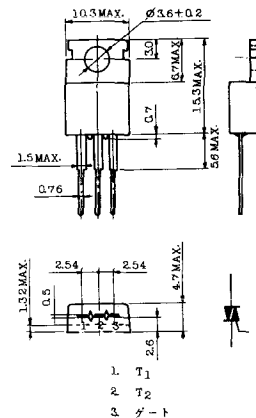
TT-2



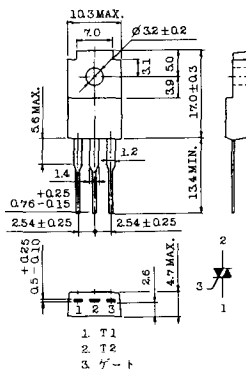
TT-3



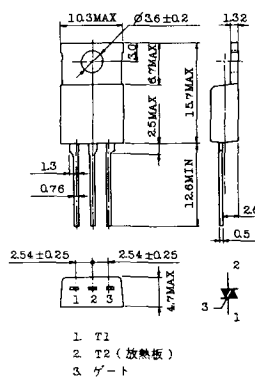
TT-4



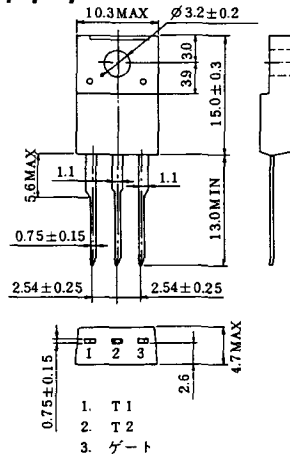
TT-5



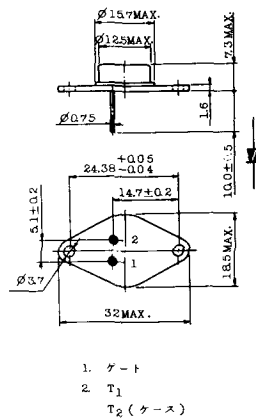
TT-6

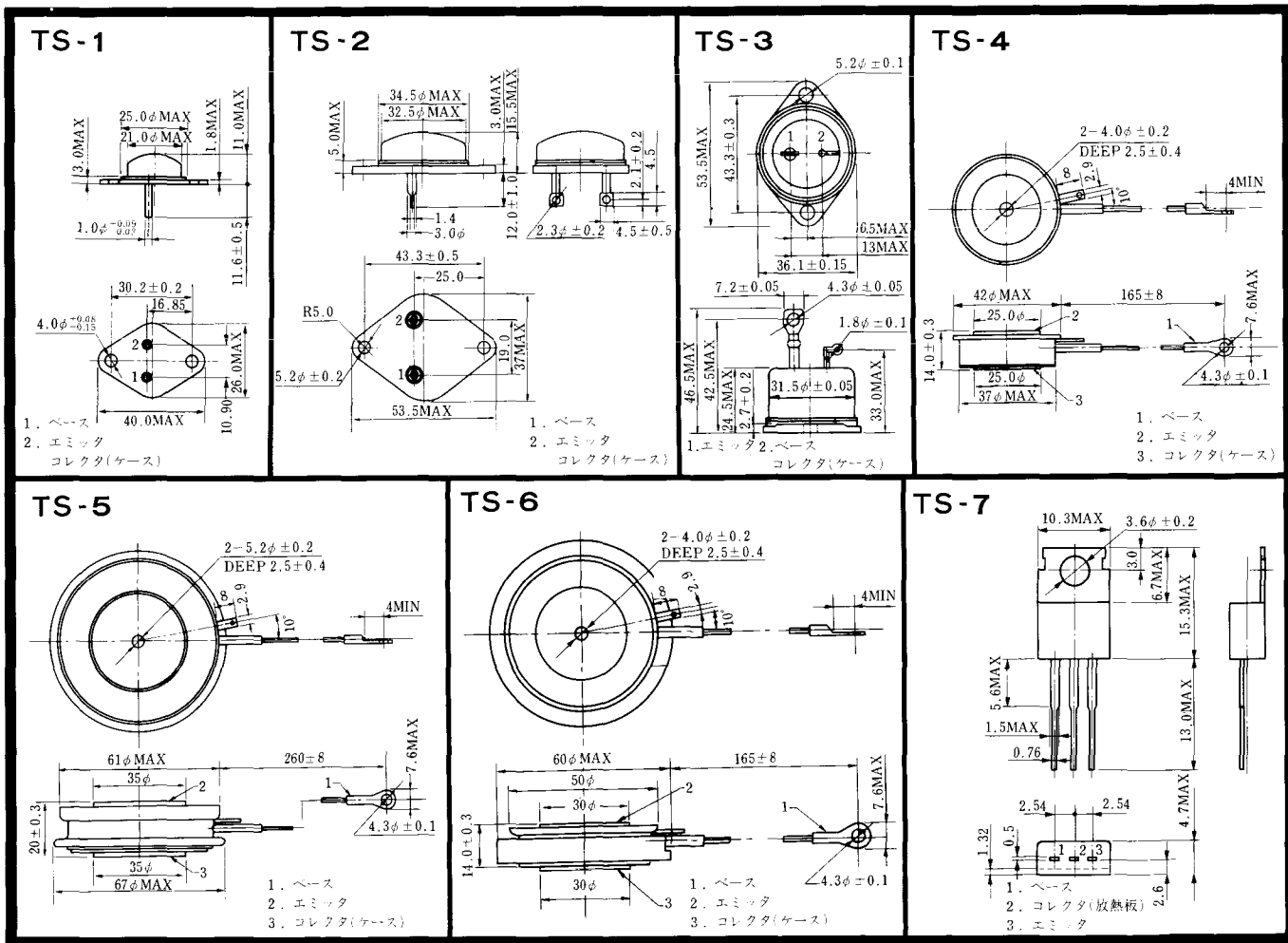


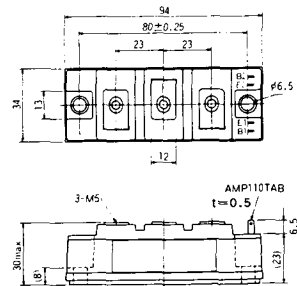
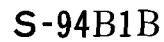
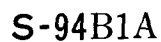
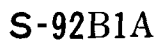
TT-7



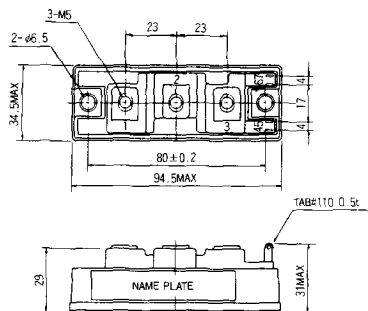
TT-8



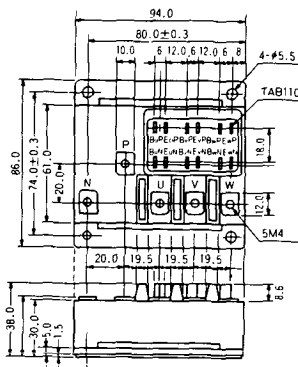




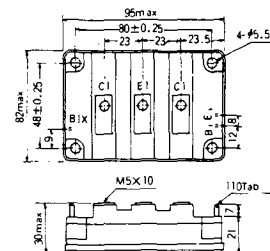
S-94B2A



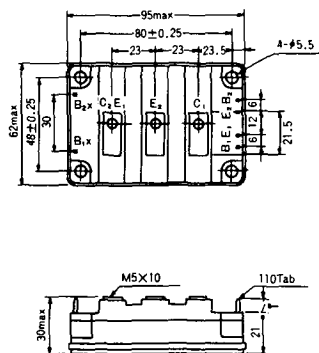
S-94D1A



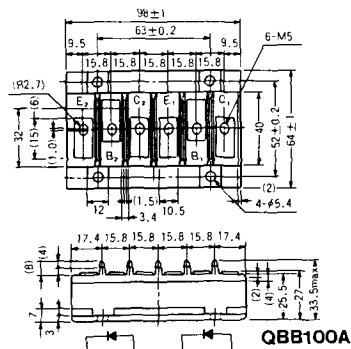
S-95A1A



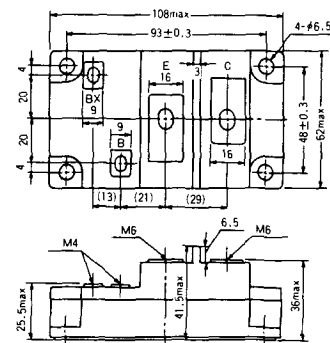
S-95B1A



S-98B1B



S-108A2A



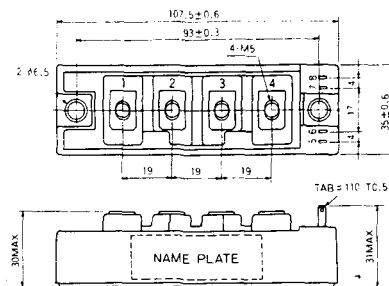
S-108B1A



S-108B1B



S-108B1C



S-108B2A



S-108B2B



2-22B1A



2-27A4A



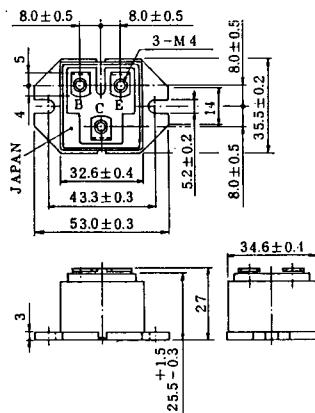
2-33C1A



2-33D1A



2-33F1A



2-37A1A



2-48A3A



2-48A3B



2-48A4A



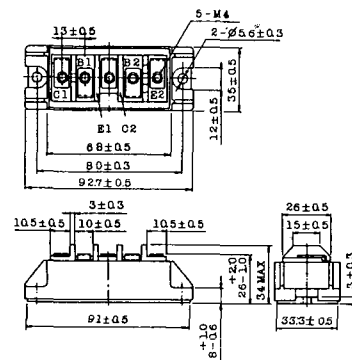
2-64A2A



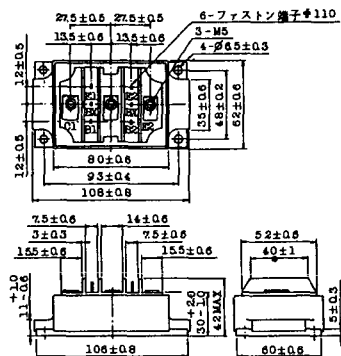
2-64A2B



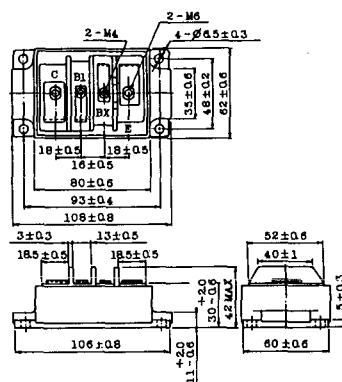
2-68A2A



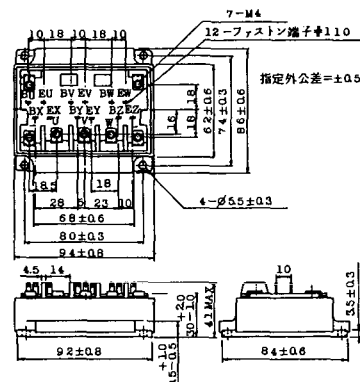
2-80C1A



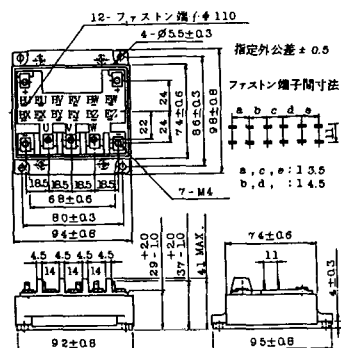
2-80D2A



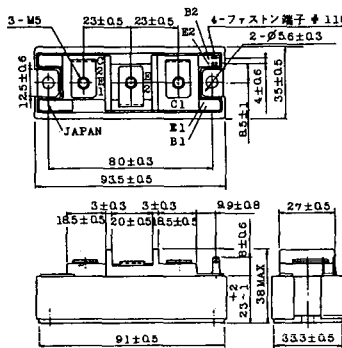
2-94A2A



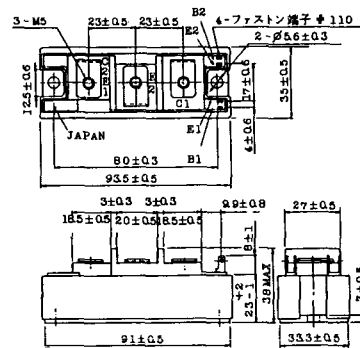
2-94B1A

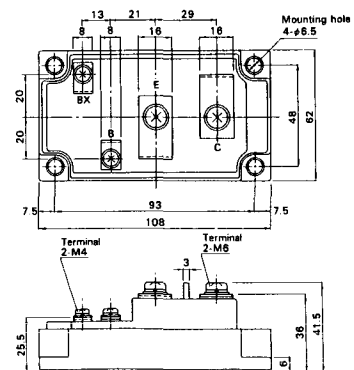
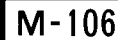
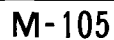
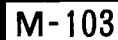
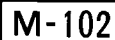


2-94C2A



2-94C3A





M-107



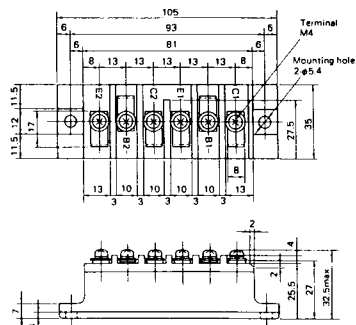
M-116



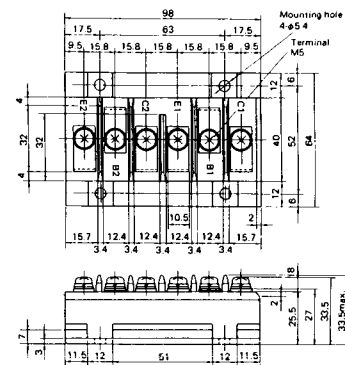
M-201



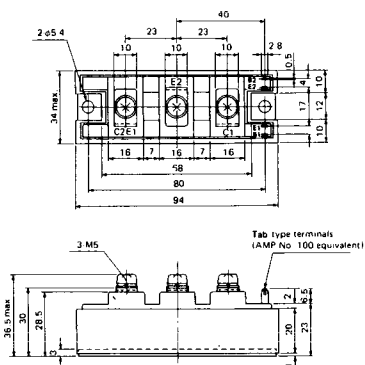
M-202



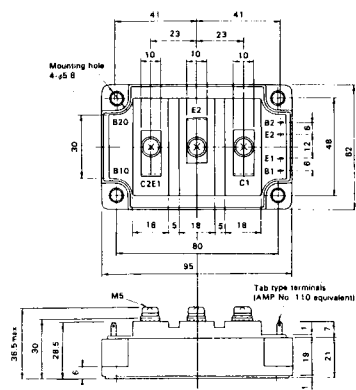
M-203



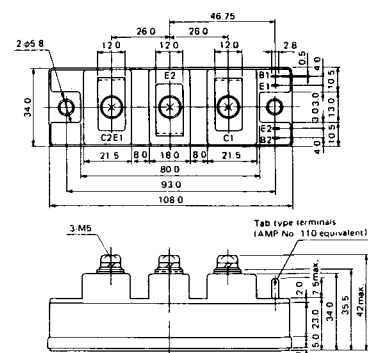
M-204



M-205



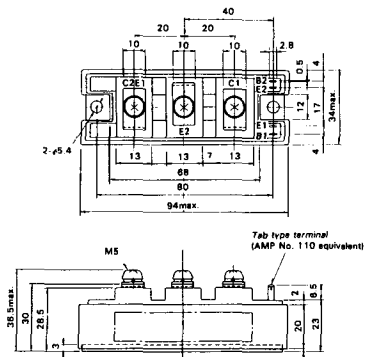
M-206



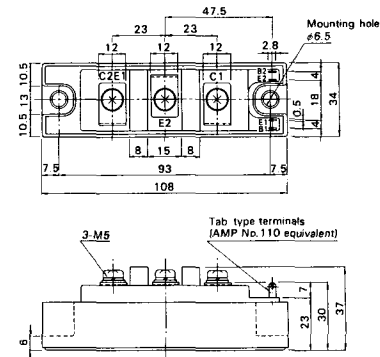
M-207



M-208



M-209



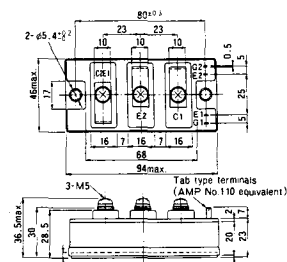
M-210

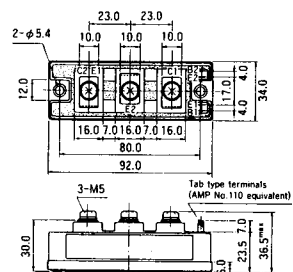
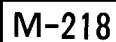
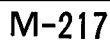
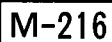
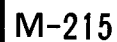
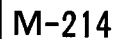


M-211

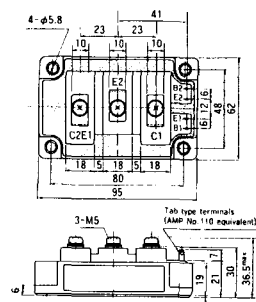


M-212





M-219



M-601



M-602



M-603



M-604



M-605



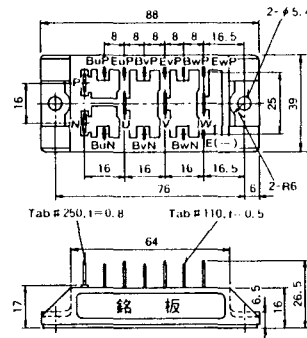
M-606



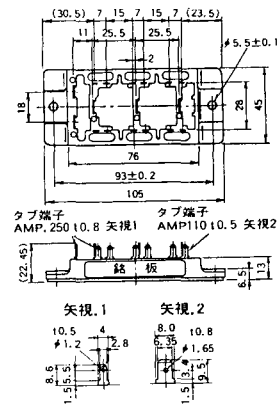
M-2E6A



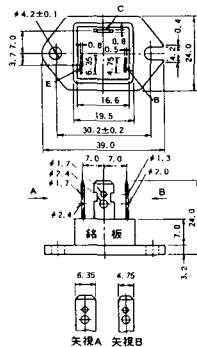
M-2F6A



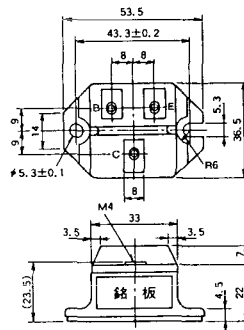
M-2G6A



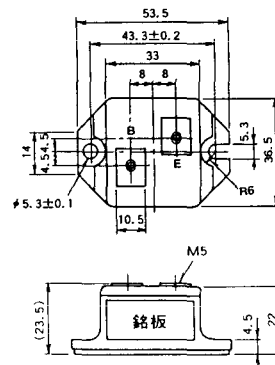
M-3A1A



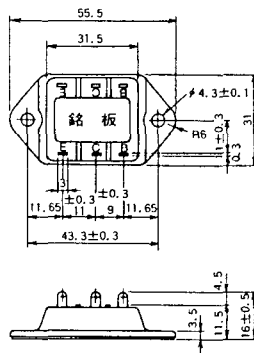
M-3B1A



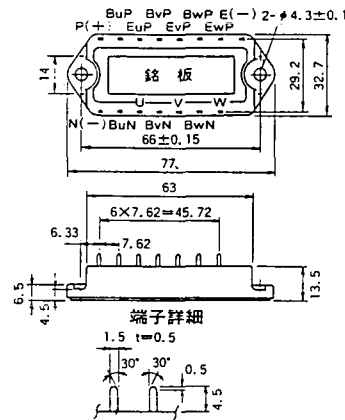
M-3B1B



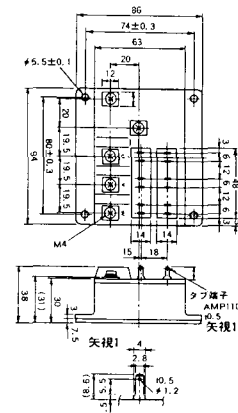
M-3C1A



M-3D6A



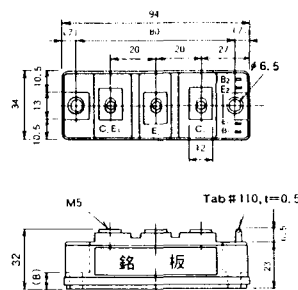
M-3E6A



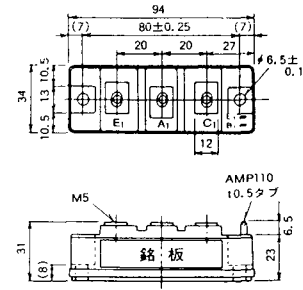
M-4A1A



M-4A2A



M-4A1B



M-4A2B



M-4B2A



M-5A1A



M-5A1B



M-5A2A



M-5B2A



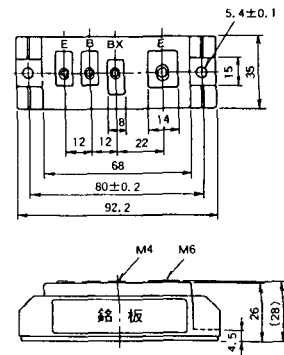
M-5C2A



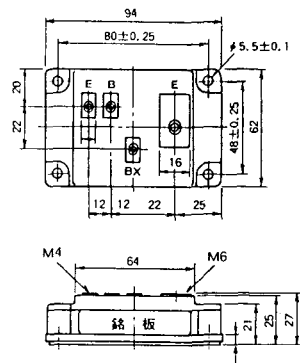
M-5D2A



M-6A1A



M-7A1A



M-7B1A



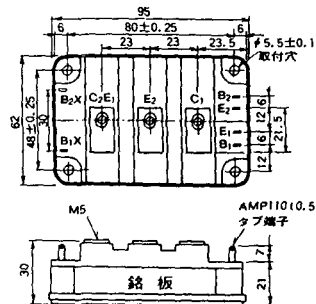
M-8A1A



M-8A1B



M-8A2A



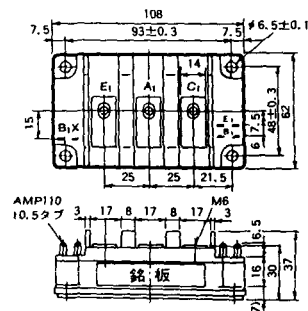
M-8A2B



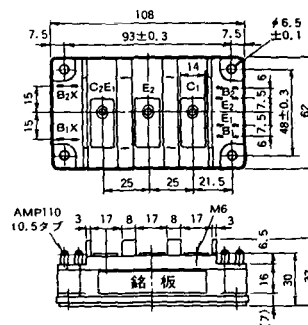
M-8B2A



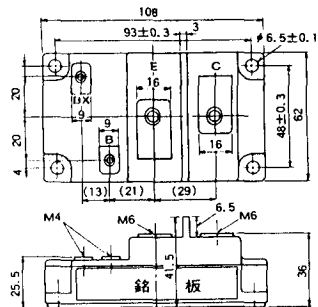
M-9A1A



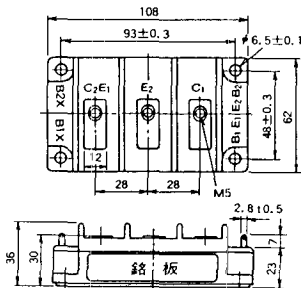
M-9A2A



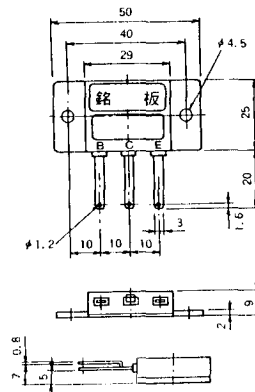
M-9B1A



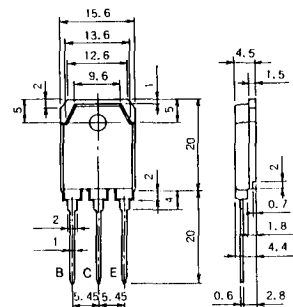
M-9C2A



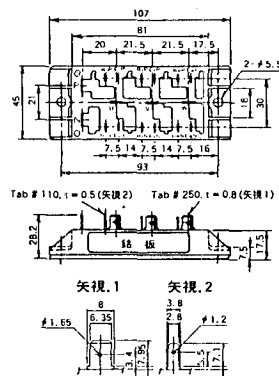
M-1A1B



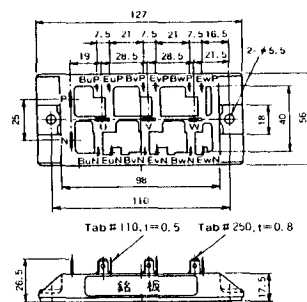
M-1A1C



M-2E6B



M-2E6C



M-4A2D



M-4A2E



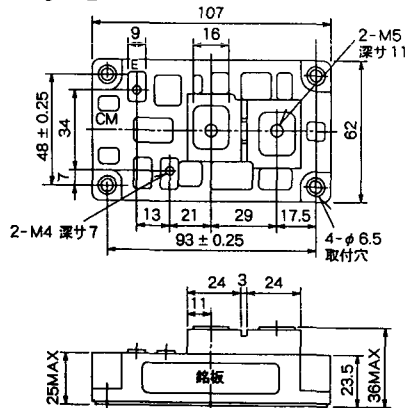
M-4C2A



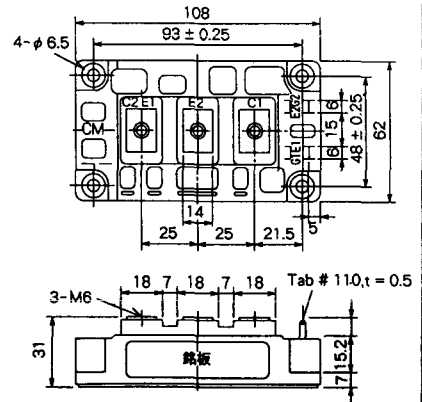
M-4C2B



M-9B1C



M-9D2A



M-9D2B



M-10A2C



H-101

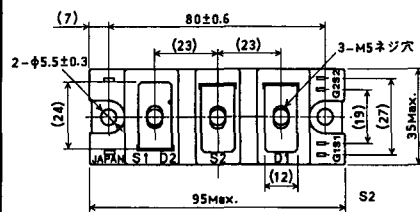


Weight :480g

TERMINALS



LF-J



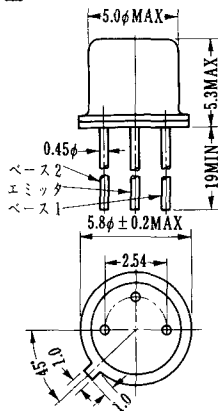
LF-K



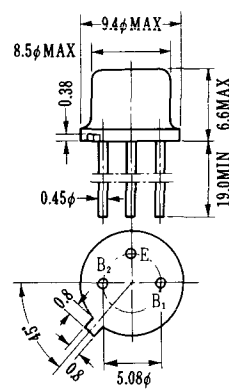
U-1



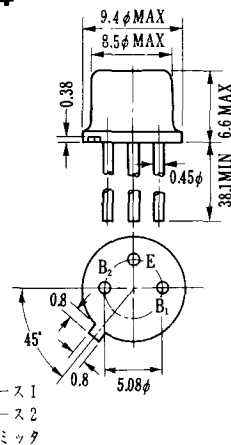
U-2



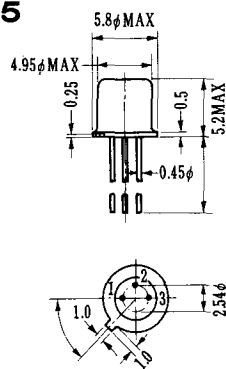
U-3



U-4

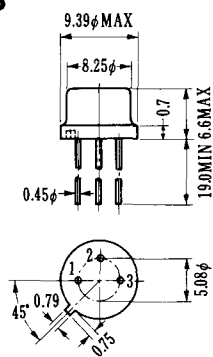


U-5



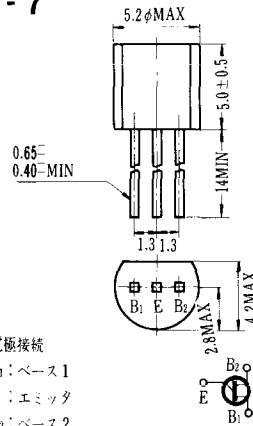
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

