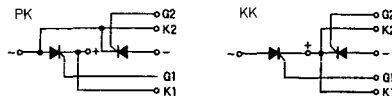


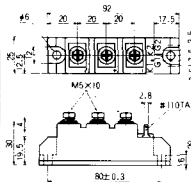
PK25F, KK25F

- 絶縁形モジュール（絶縁耐力 AC2500V 1分間）
- 25A, 400V～1600V

■接続図



■外形図



単位: mm

■最大定格

記号	PK25F-40 KK25F-40	PK25F-80 KK25F-80	PK25F-120 KK25F-120	PK25F-160 KK25F-160	単位
V_{RSM}	480	960	1300	1700	V
V_{RRM}	400	800	1200	1600	V
V_{DRM}	400	800	1200	1600	V
$I_T(AV)$	25 ($T_c=96^\circ\text{C}$, 単相半波平均値, 180° 導通角)				
$I_T(RMS)$	39 ($T_c=96^\circ\text{C}$, 単相半波実効値, 180° 導通角)				
I_{TSM}	530/580 (50/60Hz, 正弦半波 1 サイクル波高値)				
$I^2 \cdot t$	1400 ($t=2 \sim 10\text{ms}$)				
di/dt	100 ($T_j=25^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$, $I_G=100\text{mA}$, $di/dt=0.1\text{A}/\mu\text{s}$)				
P_{GM}	10				W
$P_{G(AV)}$	1				W
V_{GRM}	5				V
I_{GFM}	3				A
T_j	125				$^\circ\text{C}$
T_{MR}	$-40 \sim +125$				

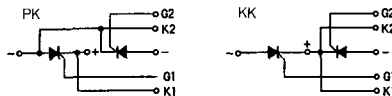
■電気的特性

記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_j=125^\circ\text{C}$, $V_D=V_{RRM}$			10	mA
I_{DRM}	$T_j=125^\circ\text{C}$, $V_D=V_{DRM}$			10	mA
V_{TM}	$T_j=25^\circ\text{C}$, $I_{TM}=75\text{A}$			1.55	V
V_{GT}	$T_j=25^\circ\text{C}$, $V_D=6\text{V}$			3	V
I_{GT}	$I_T=1\text{A}$			50	mA
V_{GD}	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.25			V
dv/dt	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	500			V/ μs
t_{gt}	$T_j=25^\circ\text{C}$, $I_T=25\text{A}$, $I_G=0.1\text{A}$ $V_D=\frac{1}{2}V_{DRM}$, $di/dt=0.1\text{A}/\mu\text{s}$			10	μs
I_H	$T_j=25^\circ\text{C}$			50	mA
I_{LATCH}	$T_j=25^\circ\text{C}$			100	mA
R_{th}	接合～ケース間			0.78	$^\circ\text{C}/\text{W}$

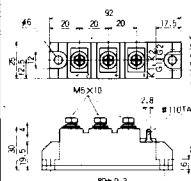
PK40F, KK40F

- 絶縁形モジュール（絶縁耐力 AC2500V 1分間）
- 40A, 400V～1600V

■接続図



■外形図



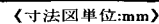
単位: mm

■最大定格

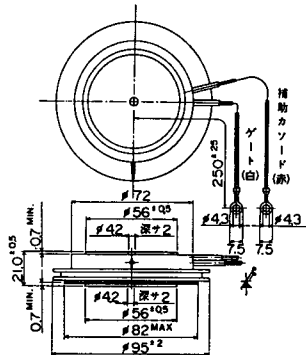
記号	PK40F-40 KK40F-40	PK40F-80 KK40F-80	PK40F-120 KK40F-120	PK40F-160 KK40F-160	単位
V_{RSM}	480	960	1300	1700	V
V_{RRM}	400	800	1200	1600	V
V_{DRM}	400	800	1200	1600	V
$I_T(AV)$	40 ($T_c=96^\circ\text{C}$, 単相半波平均値, 180° 導通角)				
$I_T(RMS)$	62 ($T_c=96^\circ\text{C}$, 単相半波実効値, 180° 導通角)				
I_{TSM}	1200/1300 (50/60Hz, 正弦半波 1 サイクル波高値)				
$I^2 \cdot t$	7200 ($t=2 \sim 10\text{ms}$)				
di/dt	150 ($T_j=25^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$, $I_G=100\text{mA}$, $di/dt=0.1\text{A}/\mu\text{s}$)				
P_{GM}	10				W
$P_{G(AV)}$	3				W
V_{GRM}	5				V
I_{GFM}	3				A
T_j	125				$^\circ\text{C}$
T_{MR}	$-40 \sim +125$				

■電気的特性

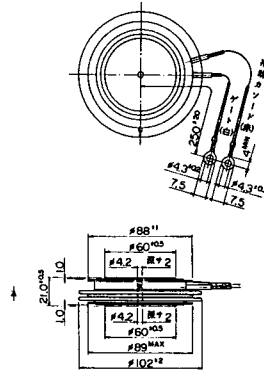
記号	測定条件	最小	標準	最大	単位
I_{RRM}	$T_j=125^\circ\text{C}$, $V_D=V_{RRM}$			15	mA
I_{DRM}	$T_j=125^\circ\text{C}$, $V_D=V_{DRM}$			15	mA
V_{TM}	$T_j=25^\circ\text{C}$, $I_{TM}=120\text{A}$			1.4	V
V_{GT}	$T_j=25^\circ\text{C}$, $V_D=6\text{V}$			3	V
I_{GT}	$I_T=1\text{A}$			70	mA
V_{GD}	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.25			V
dv/dt	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	500			V/ μs
t_{gt}	$T_j=25^\circ\text{C}$, $I_T=40\text{A}$, $I_G=0.1\text{A}$ $V_D=\frac{1}{2}V_{DRM}$, $di/dt=0.1\text{A}/\mu\text{s}$			10	μs
I_H	$T_j=25^\circ\text{C}$			50	mA
I_{LATCH}	$T_j=25^\circ\text{C}$			100	mA
R_{th}	接合～ケース間			0.55	$^\circ\text{C}/\text{W}$



FD-9



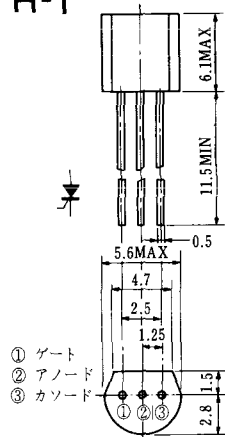
FD-10



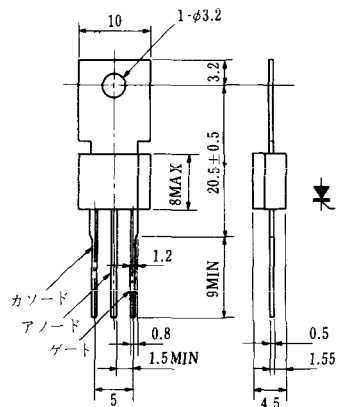
FD-11

FD-12

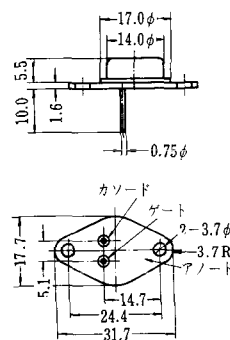
H-1



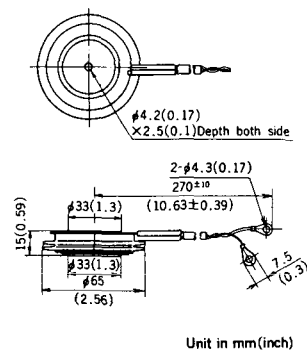
H-2



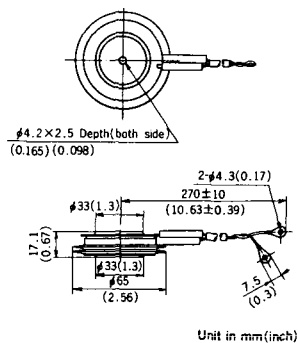
H-3



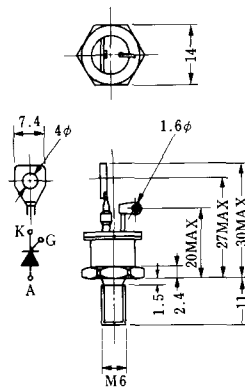
H-4



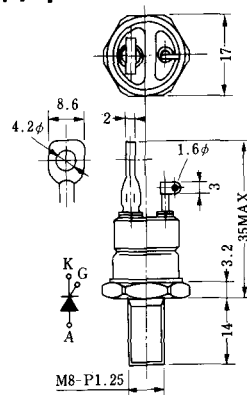
H-5



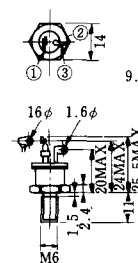
H-6



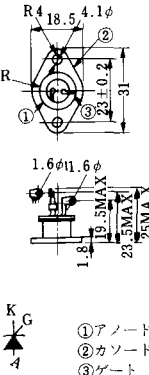
H-7



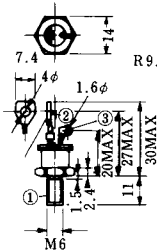
H-8A



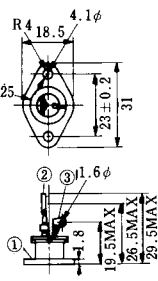
H-8B



H-9A

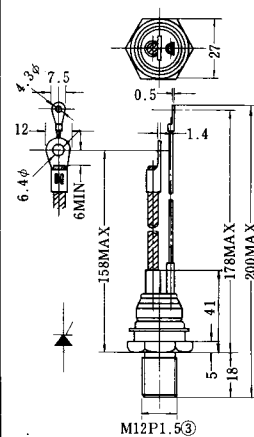


H-9B

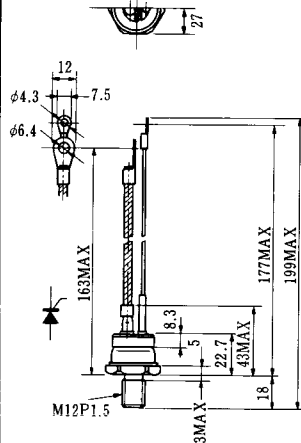


- ① アノード
- ② カソード
- ③ ゲート

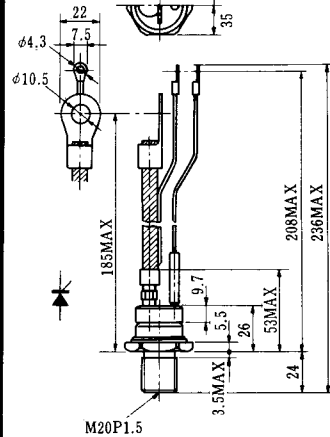
H-10



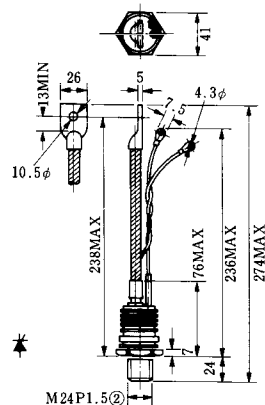
H-11



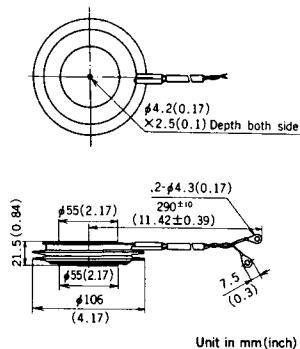
H-12



H-13

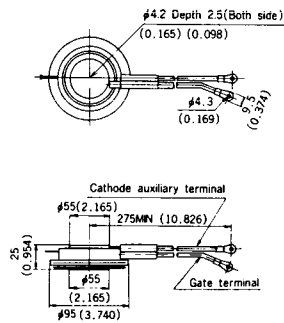


H-14



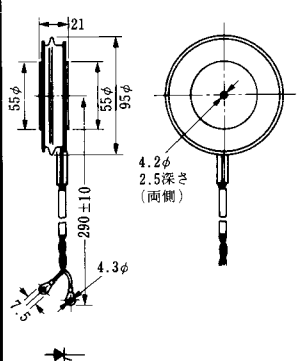
Unit in mm (inch)

H-15

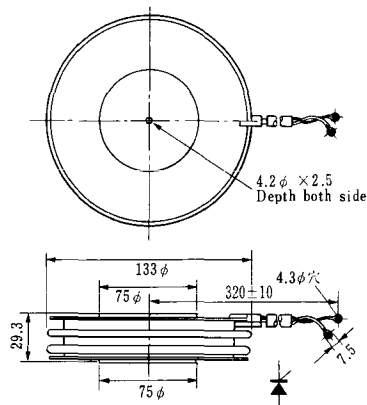


Unit in mm (inch)

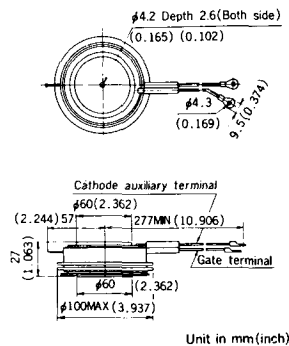
H-16



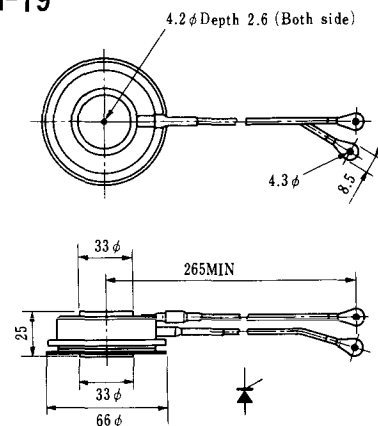
H-17



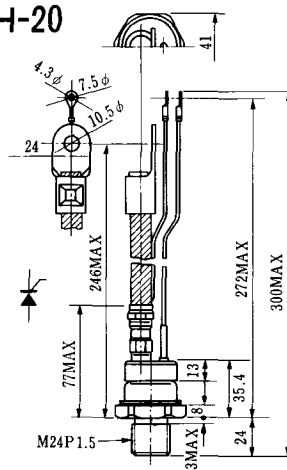
H-18



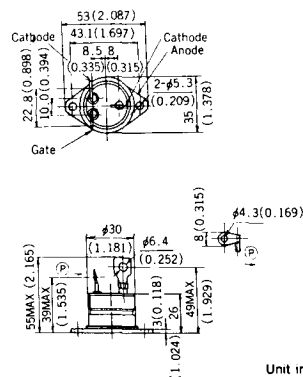
H-19



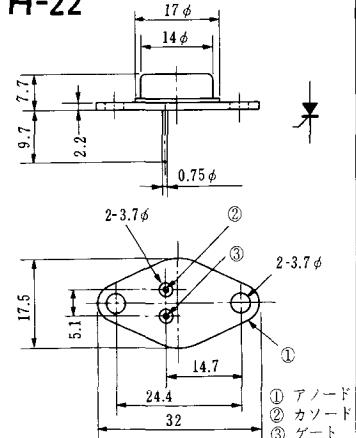
H-20



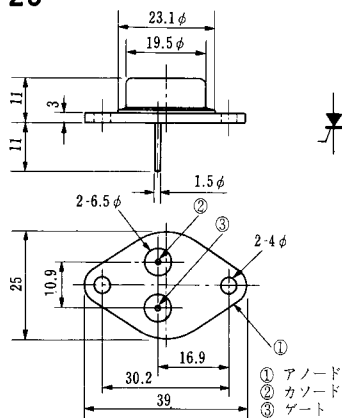
H-21



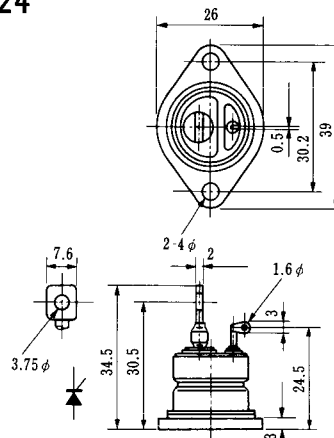
H-22



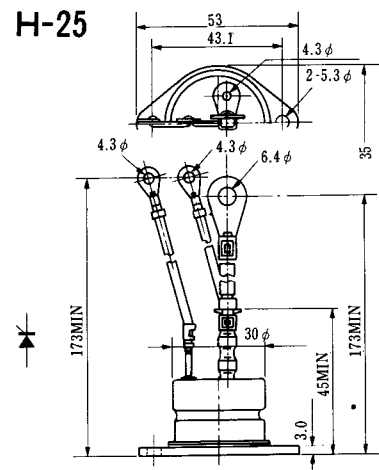
H-23



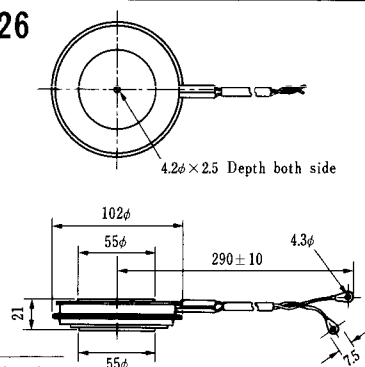
H-24



H-25

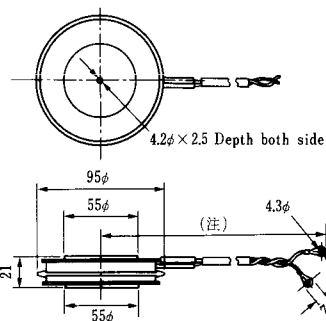


H-26



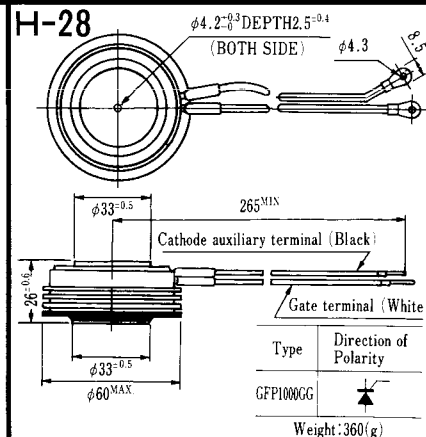
Type	Direction of polarity
CA12	

H-27



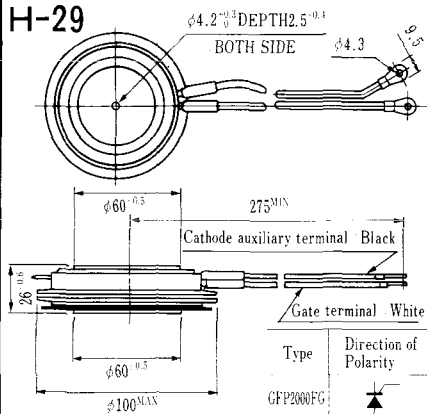
Type	Direction of polarity
CF11V	

H-28



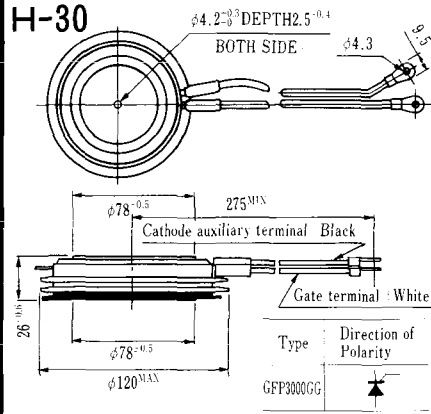
Note: The thickness is a dimension in press at the rated mounting force.

H-29



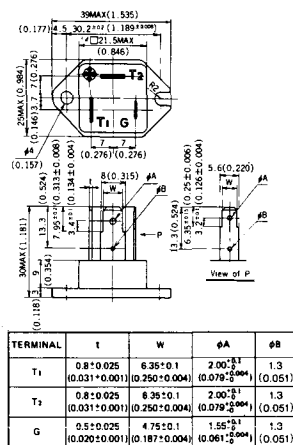
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



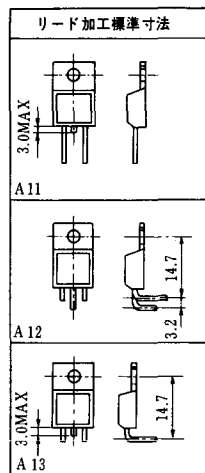
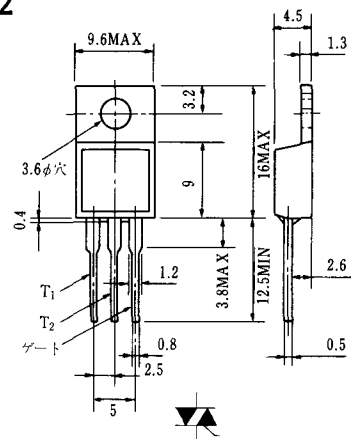
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

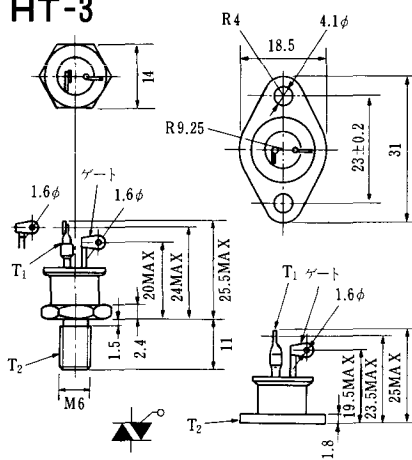


Unit in mm (inch)

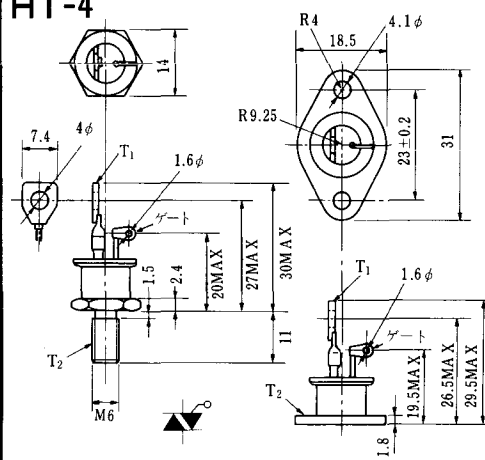
HT-2



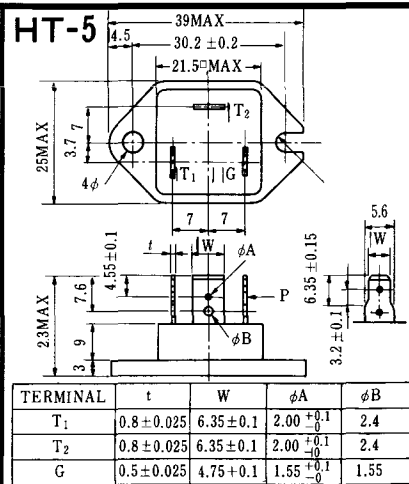
HT-3



HT-4

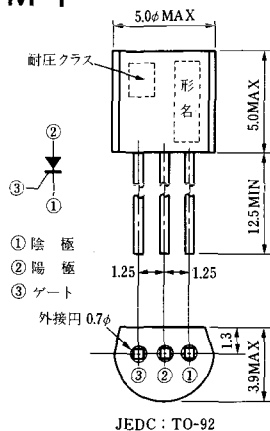


HT-5

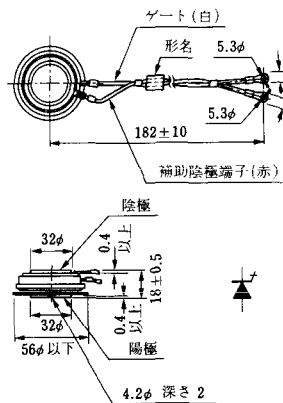


《寸法図単位：mm》

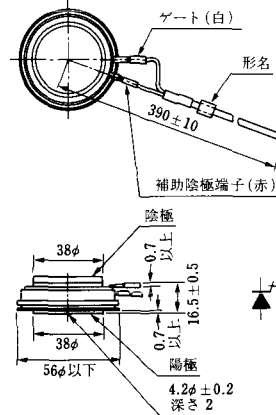
M-1



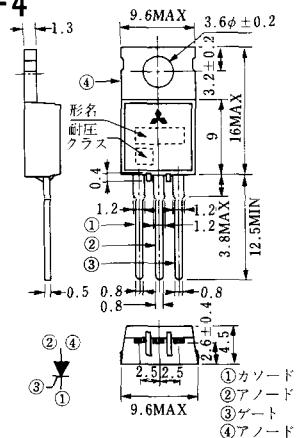
M-2



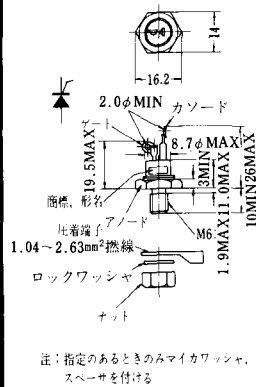
M-3



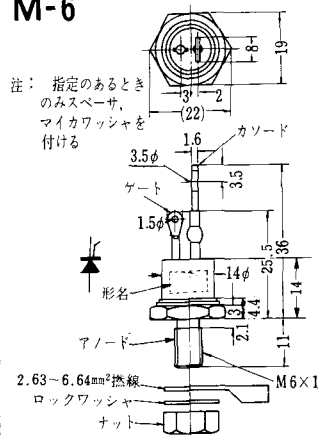
M-4



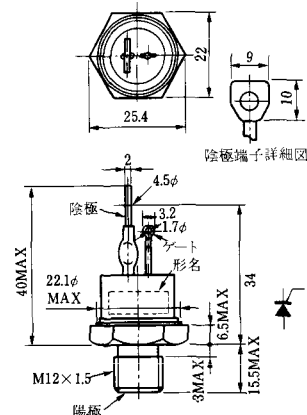
M-5



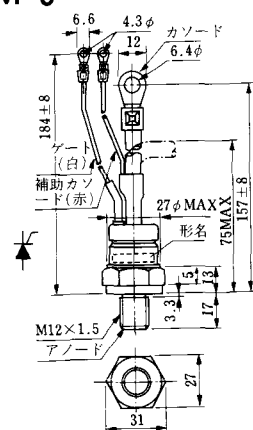
M-6



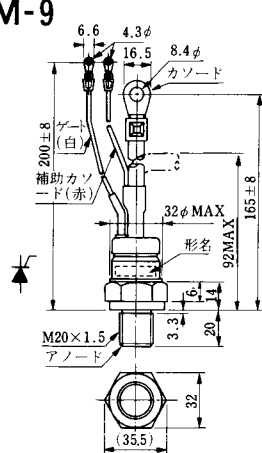
M-7



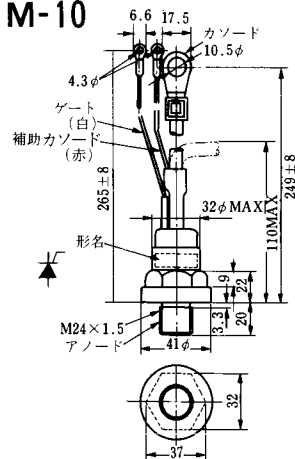
M-8



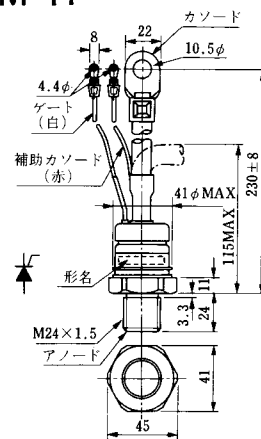
M-9



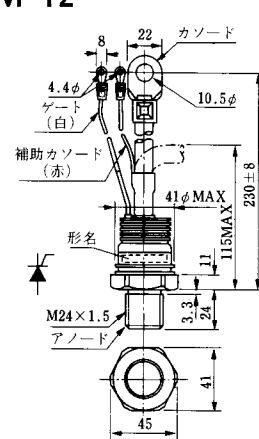
M-10



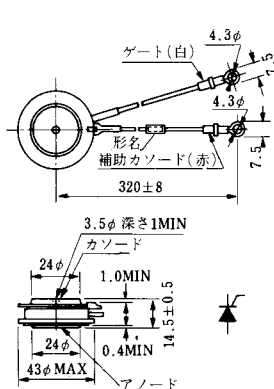
M-11



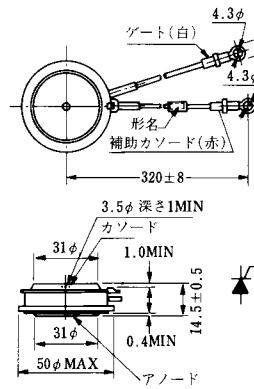
M-12



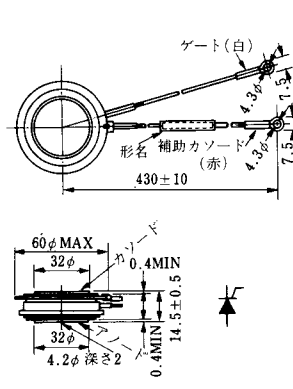
M-13



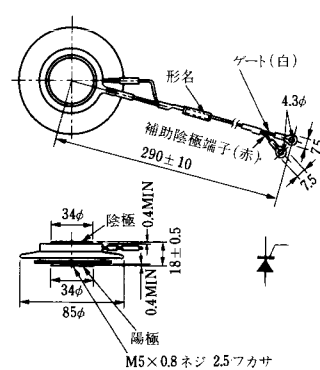
M-14



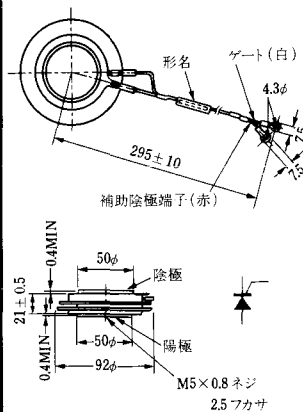
M-15



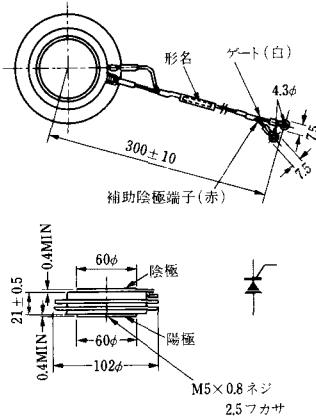
M-16



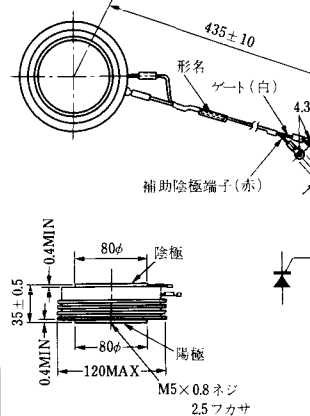
M-17



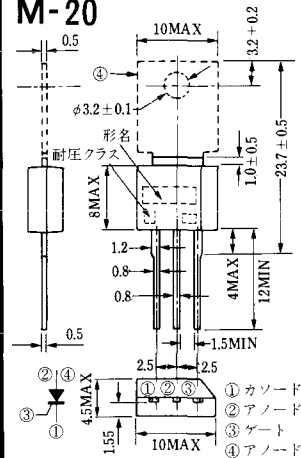
M-18



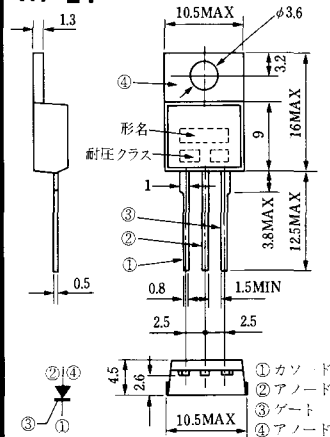
M-19



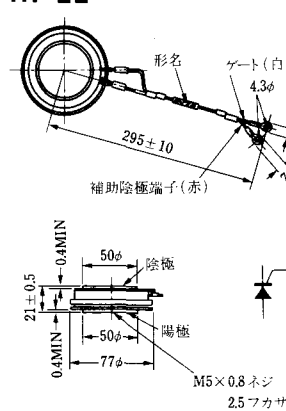
M-20



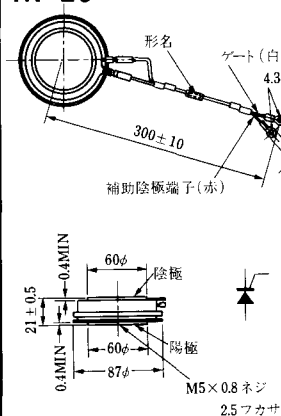
M-21



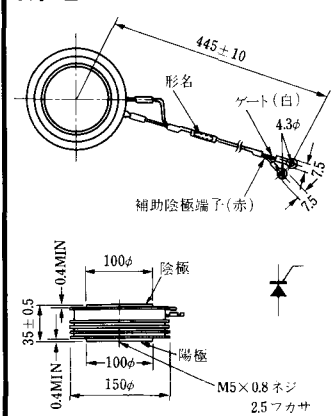
M-22



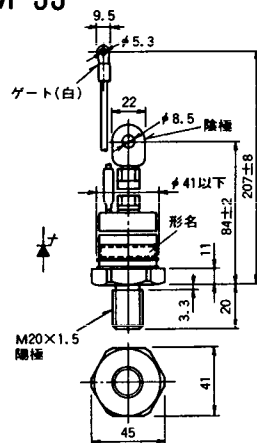
M-23



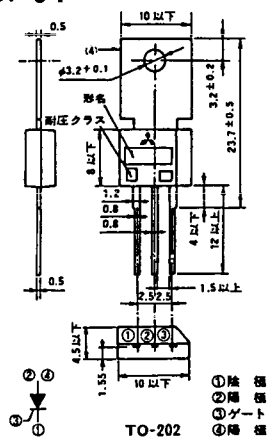
M-24



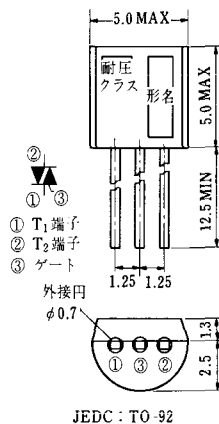
M-33



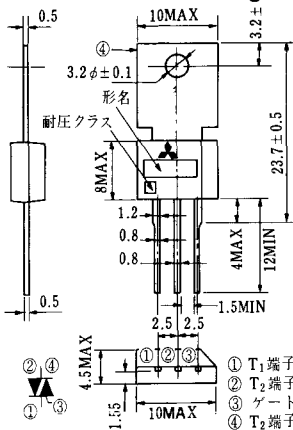
M-34



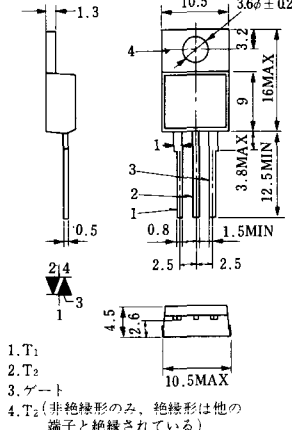
MT-1



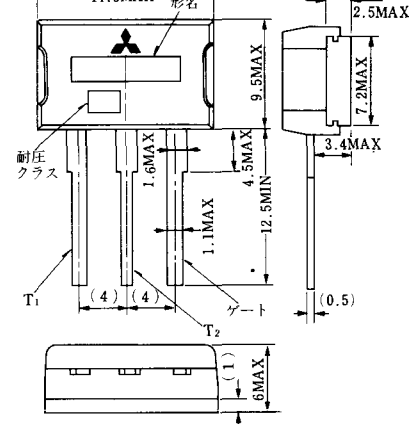
MT-2



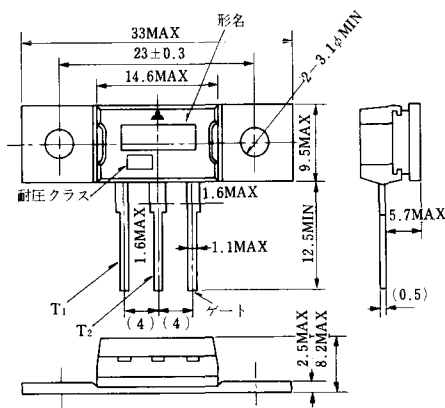
MT-3



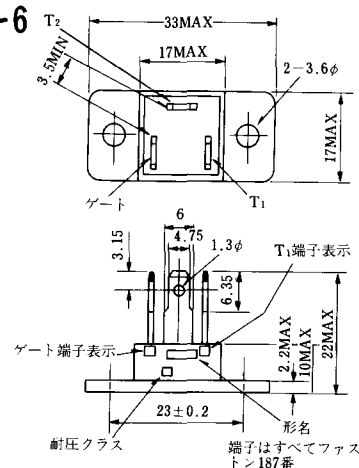
MT-4



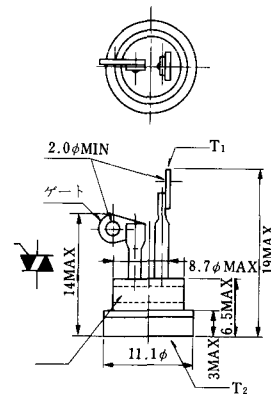
MT-5



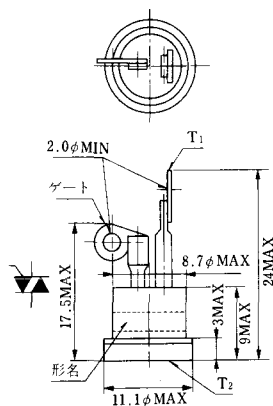
MT-6



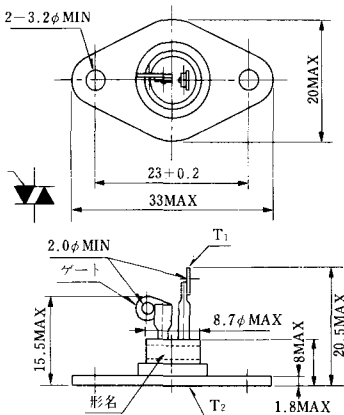
MT-7



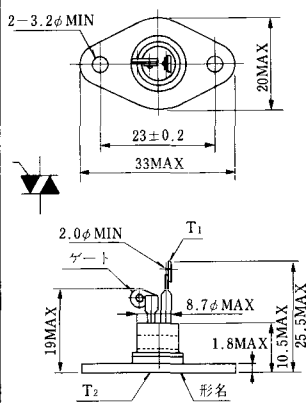
MT-8



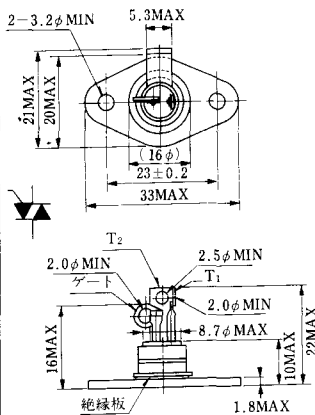
MT-9



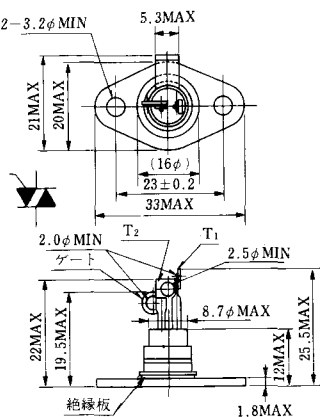
MT-10



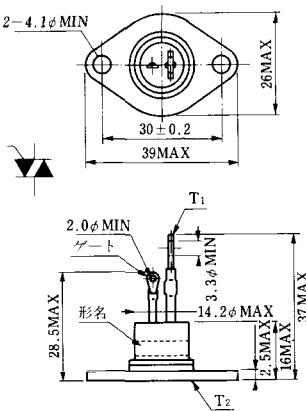
MT-11



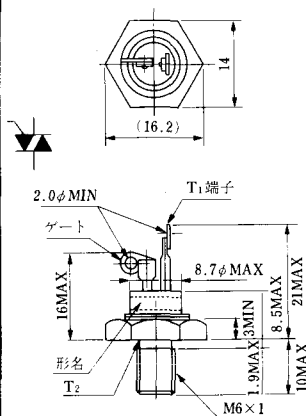
MT-12



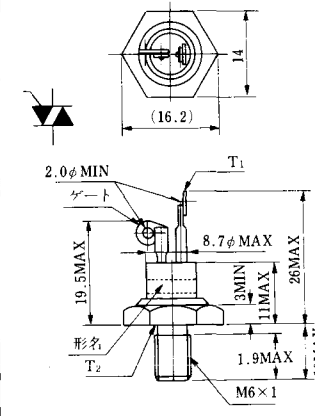
MT-13



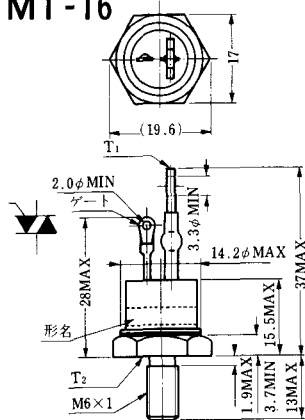
MT-14



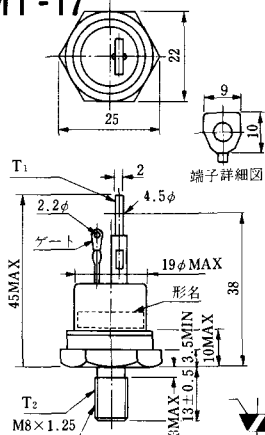
MT-15



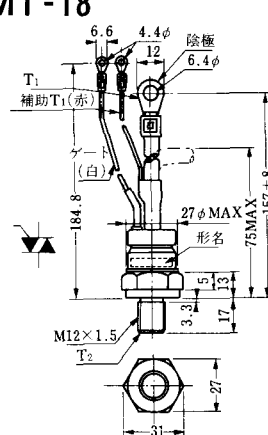
MT-16



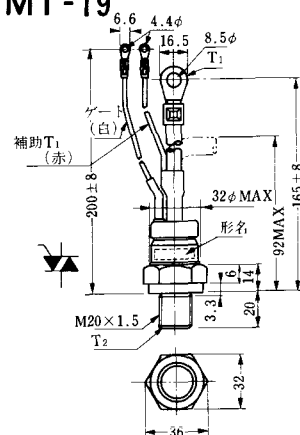
MT-17



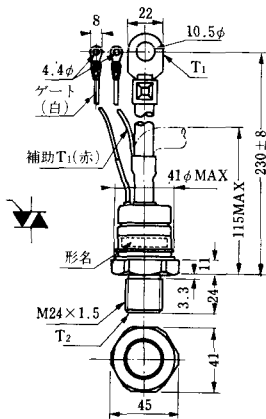
MT-18



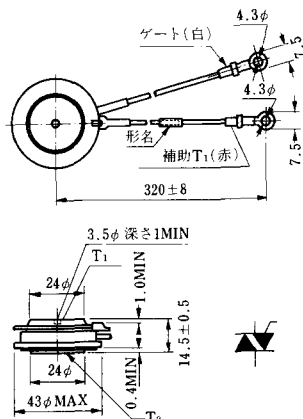
MT-19



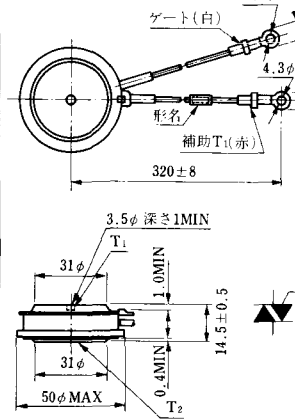
MT-20



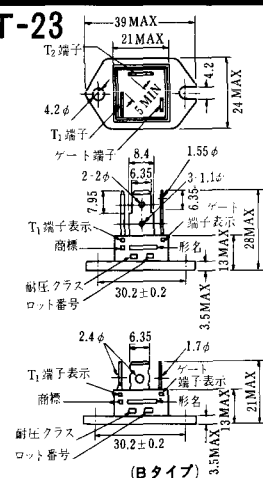
MT-21



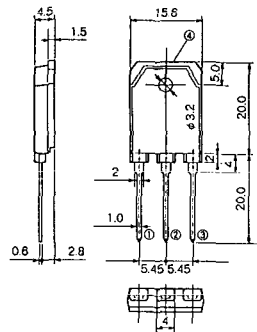
MT-22



MT-23



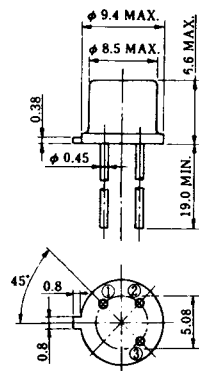
MT-24



TO - 3P

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

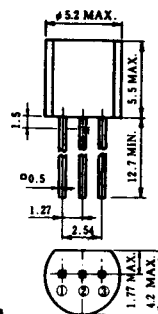
N-1



電極接続

- ① カソード
- ② ゲート
- ③ アノード

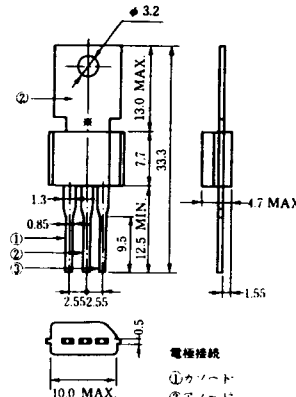
N-2



電極接続

- ① ヤート
- ② アノード
- ③ カソード

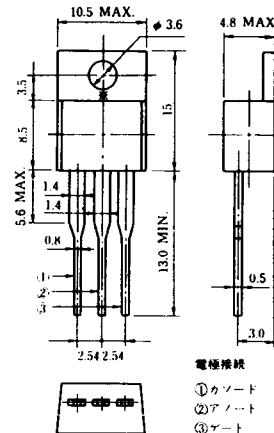
N-3



電極接続

- ① カソード
- ② アノード
- ③ ゲート

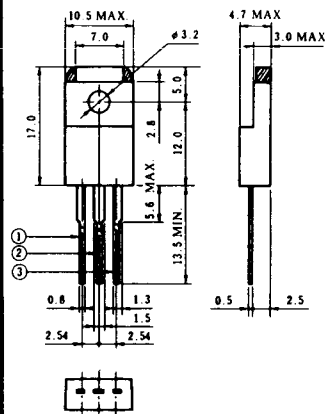
N-4



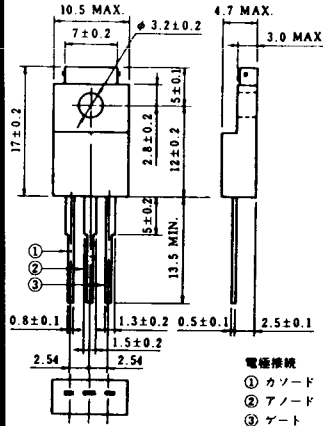
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-5



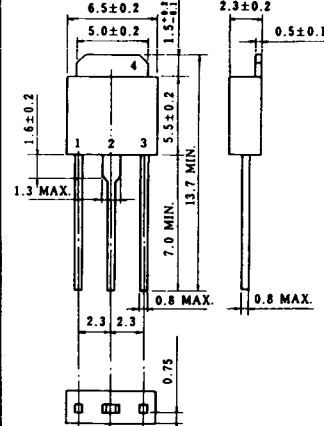
N-6



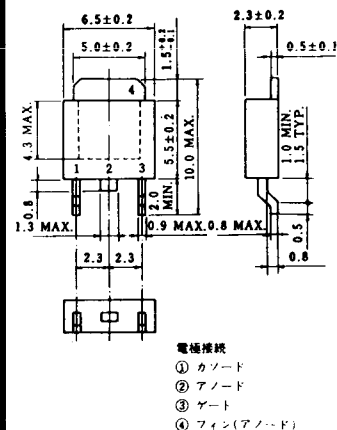
電極接続

- ① カソード
- ② アノード
- ③ ゲート

N-7



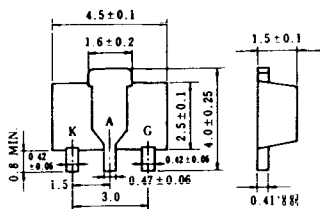
N-8



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



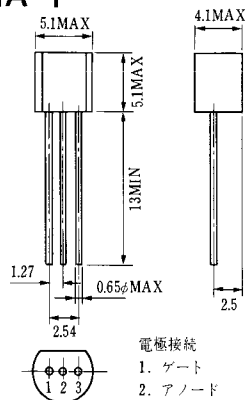
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

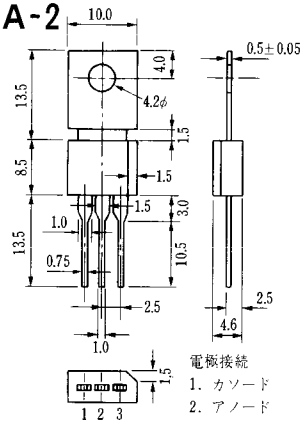


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2

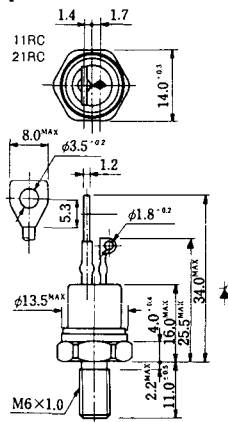


電極接続

1. カソード
2. アノード
3. ゲート

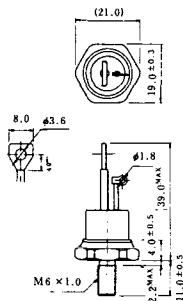
JEDEC: TO-202AA

NI-1



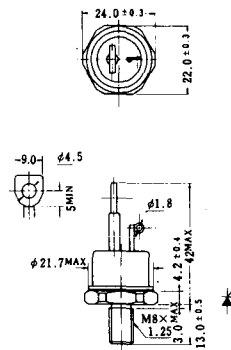
NI-2

29RD



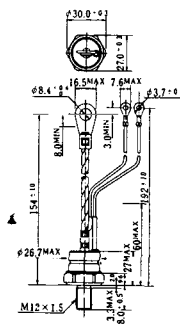
NI-3

39RC
59RC
39RF
59RF



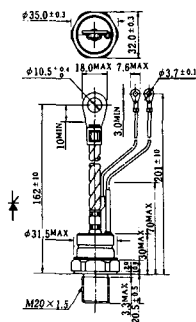
NI-4

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



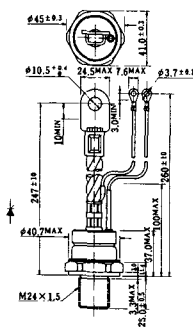
NI-5

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



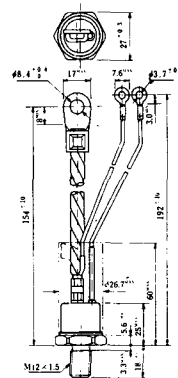
NI-6

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



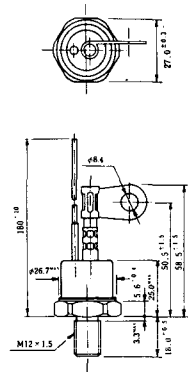
NI-7

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



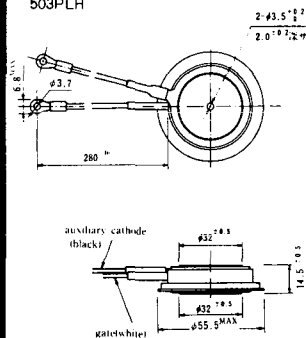
NI-8

89RW
129RW



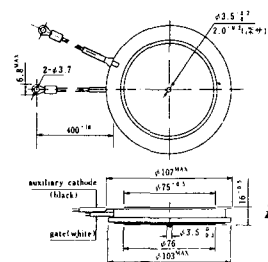
NI-16

503PLF
503PLH



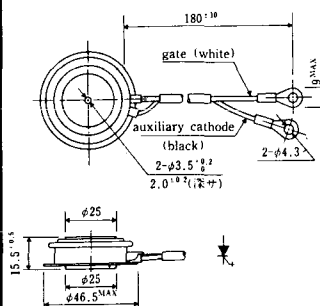
NI-17

3003PA



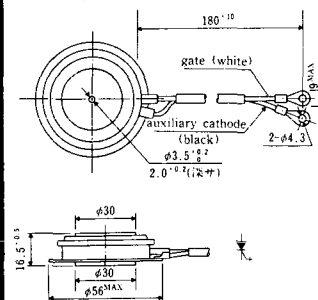
NI-18

353PGA「E



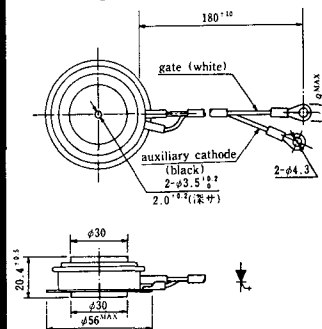
NI-19

603PGA, 603PGA「A, 803PGA



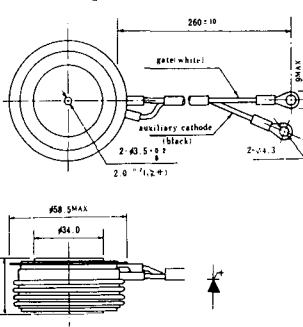
NI-20

603PGA「E



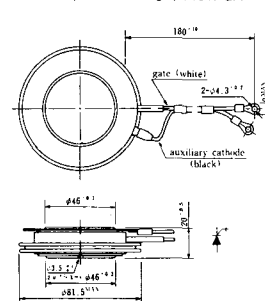
NI-21

1001PGB「E



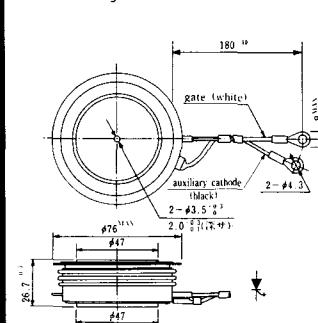
NI-22

1201PGA, 1201PGA「A, 1401PGA



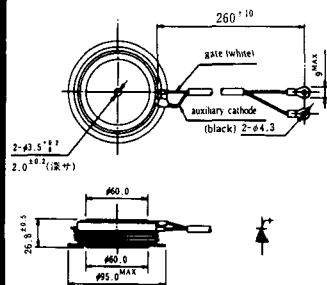
NI-23

1201PGA「E



NI-24

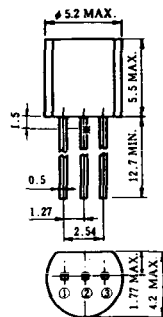
2001PGB[®] JE



NI-25

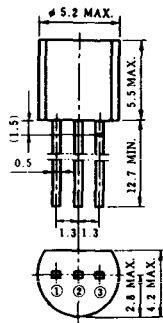
NI-26

NT-1



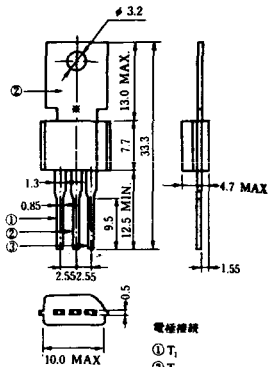
電極接続
①T₁
②ゲート
③T₂

NT-2



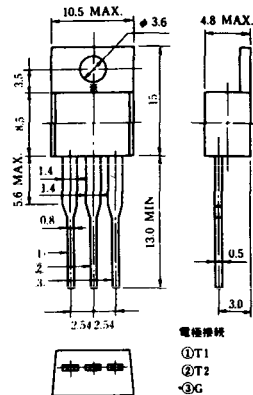
電極接続
①T₁
②ゲート
③T₂

NT-3



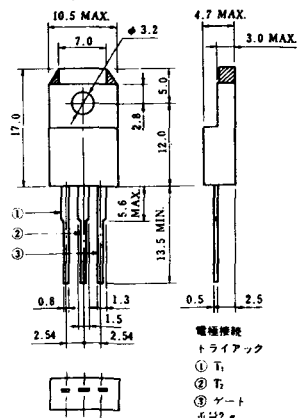
電極接続
①T₁
②T₂
③ゲート

NT-4



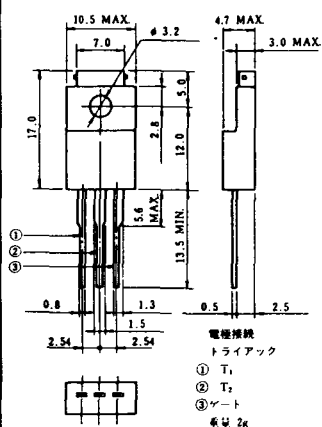
電極接続
①T₁
②T₂
③G

NT-5



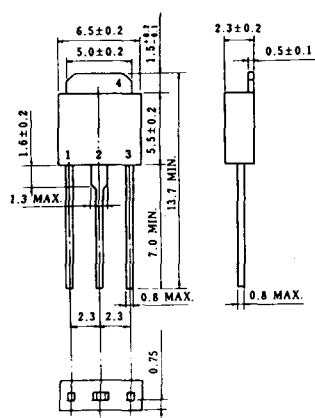
電極接続
トライアック
①T₁
②T₂
③ゲート
④2g

NT-6

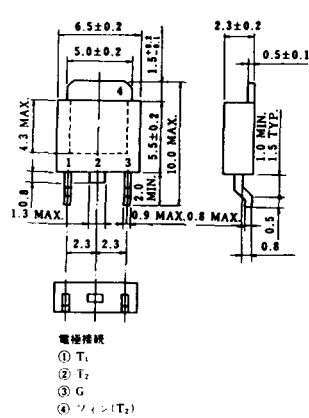


電極接続
トライアック
①T₁
②T₂
③ゲート
④2k

NT-7

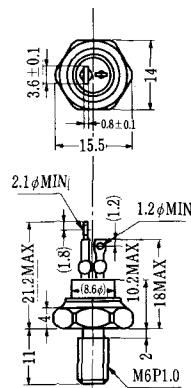


NT-8

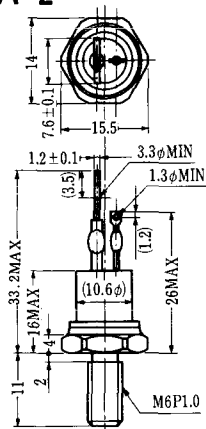


電極接続
①T₁
②T₂
③G
④フィ(T₂)

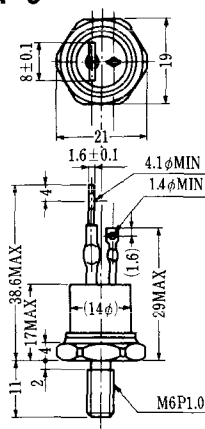
SA-1



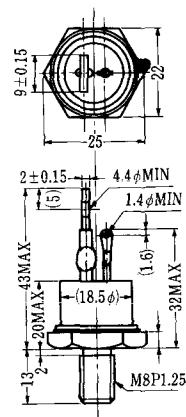
SA-2



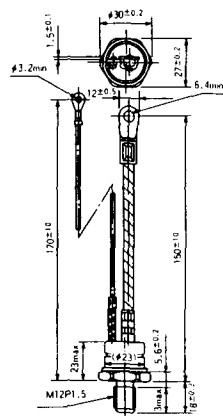
SA-3



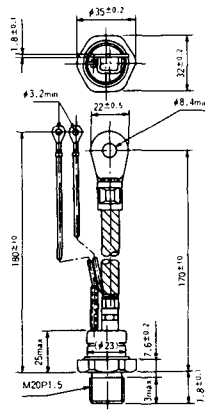
SA-4



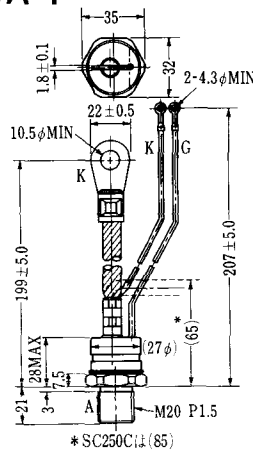
SA-5



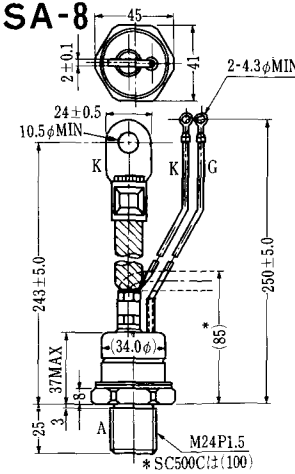
SA-6



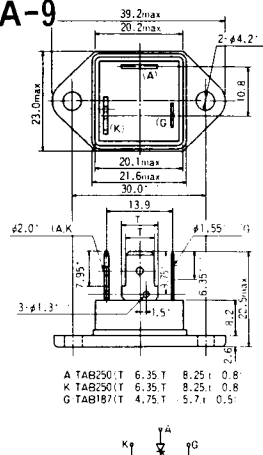
SA-7



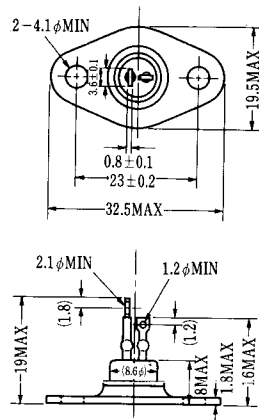
SA-8



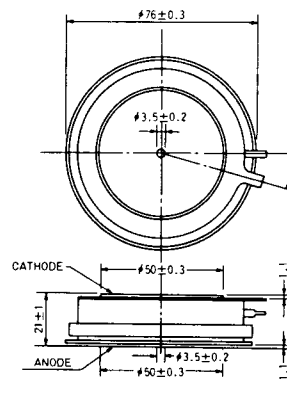
SA-9



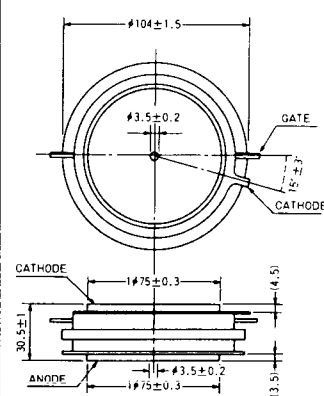
SA-10



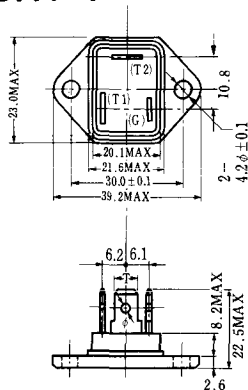
SA-11



SA-12

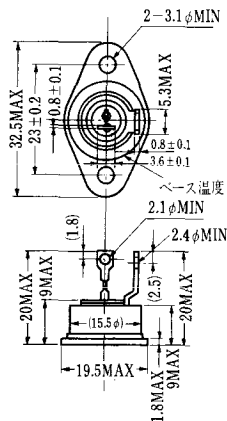


SAT-1

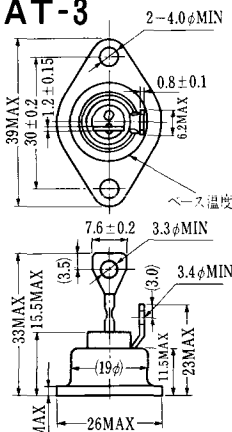


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

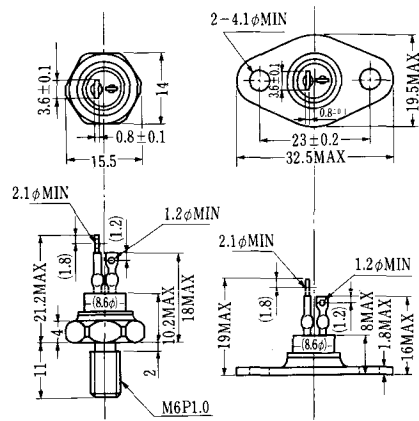
SAT-2



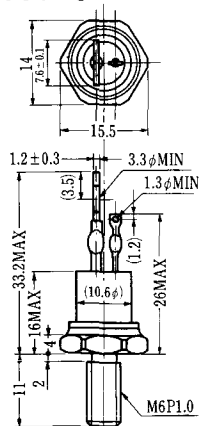
SAT-3



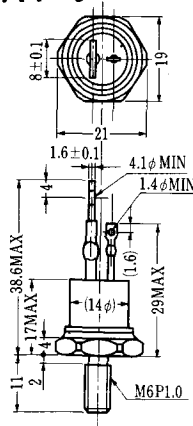
SAT-4



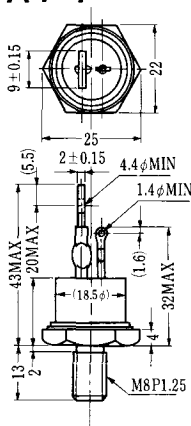
SAT-5



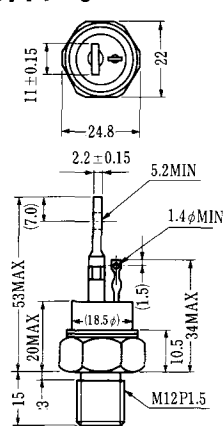
SAT-6



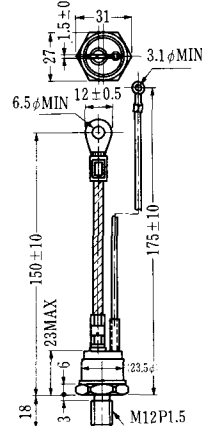
SAT-7



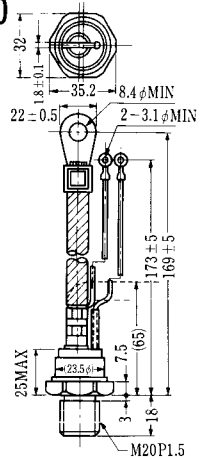
SAT-8



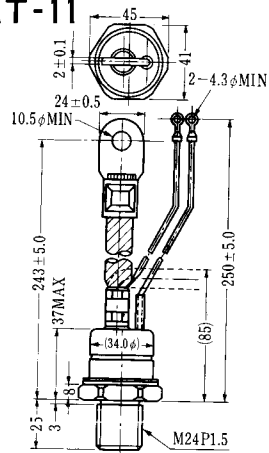
SAT-9.



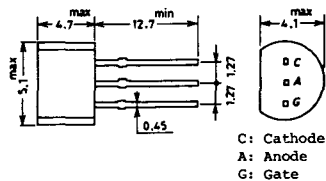
SAT-10



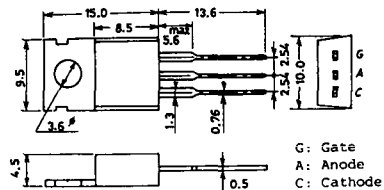
SAT-11



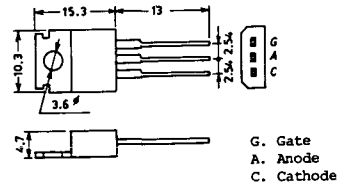
SY-1(1096A)



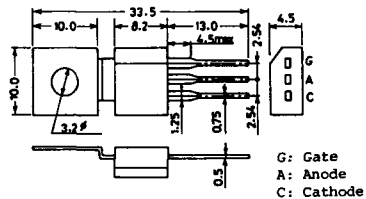
SY-2(1151)



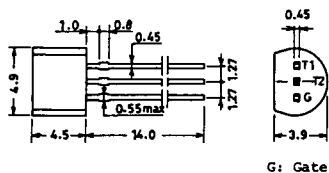
SY-3(1104)



SY-4(1150)

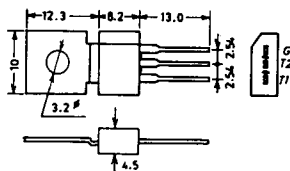


1097A

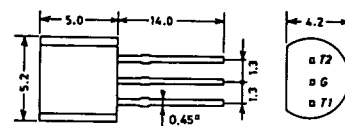


G: Gate

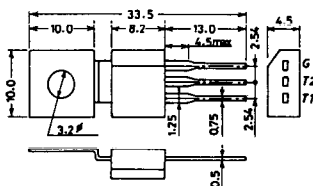
1102



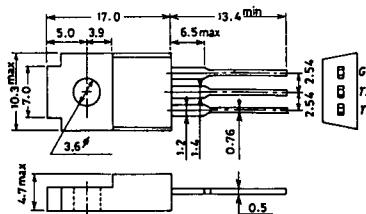
1141



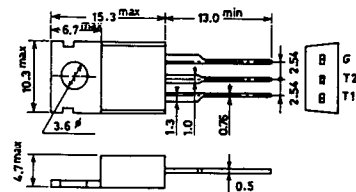
1142



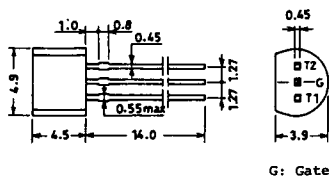
1144



1155

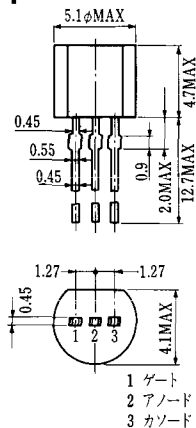


1192A

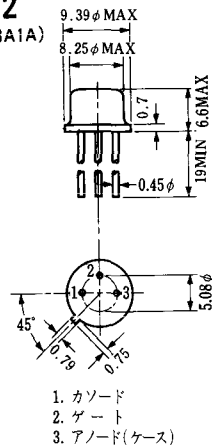


G: Gate

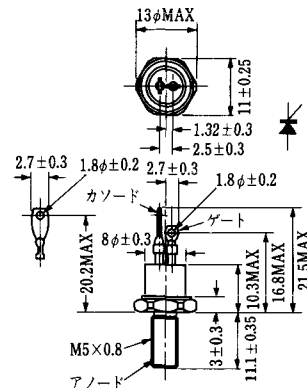
T-1 (13-5A1A)



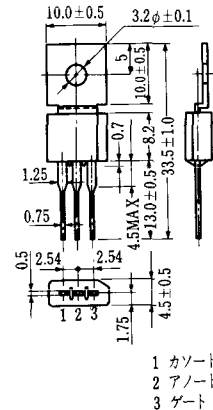
T-2 (13-8A1A)



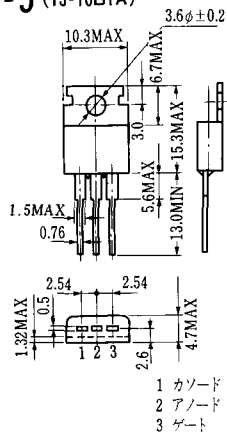
T-3 (13-8C1A)



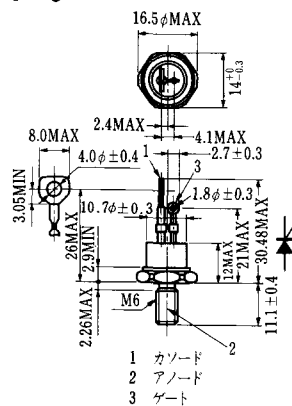
T-4 (13-10A1A)



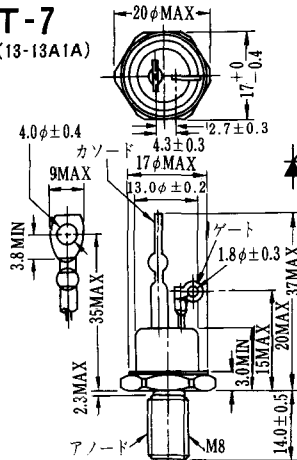
T-5 (13-10B1A)



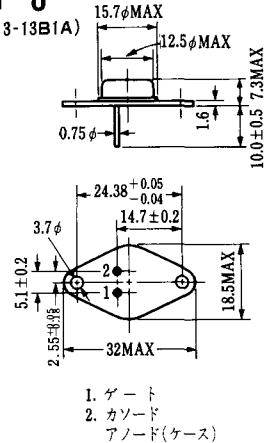
T-6 (13-11D1A)



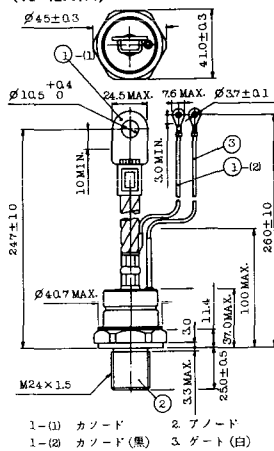
T-7 (13-13A1A)



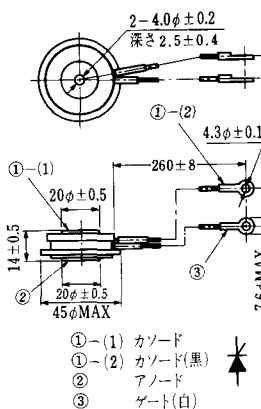
T-8 (13-13B1A)



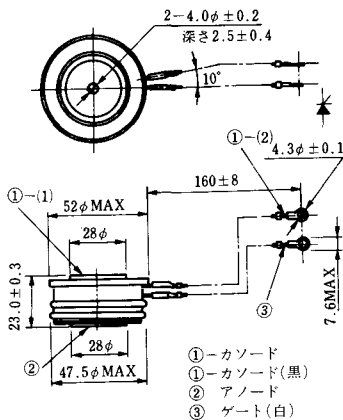
T-17 (13-42A1A)



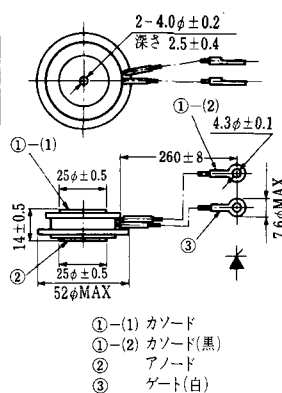
T-18 (13-45D1A)



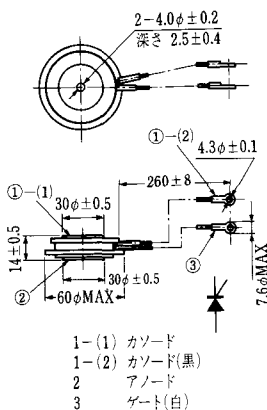
T-19 (13-52B1A)



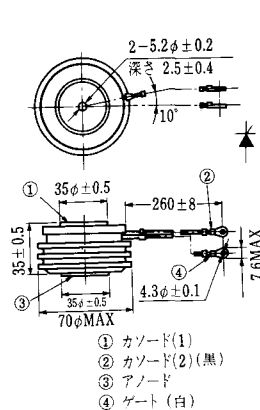
T-20 (13-52C1A)



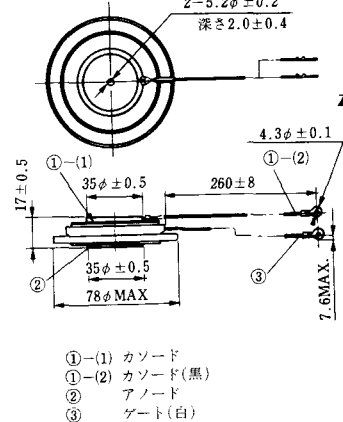
T-21 (13-60A1A)



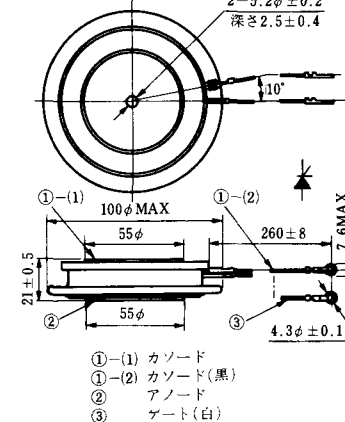
T-22 (13-70C1A)



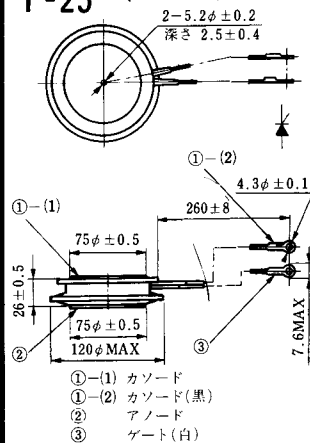
T-23 (13-78A1A)



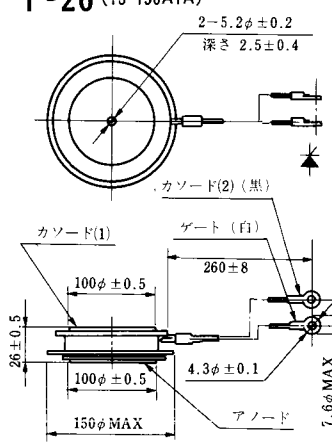
T-24 (13-100C1A)



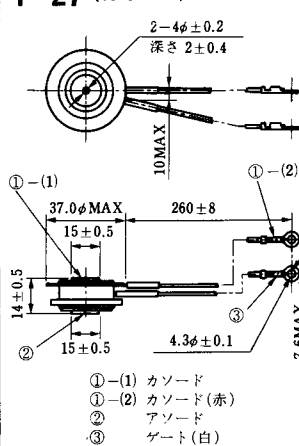
T-25 (13-120A2A)



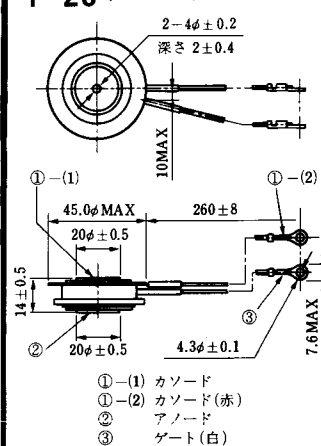
T-26 (13-150A1A)



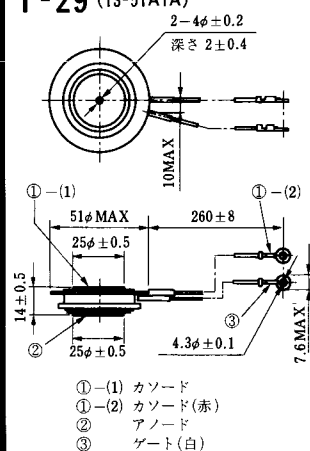
T-27 (13-37A1A)



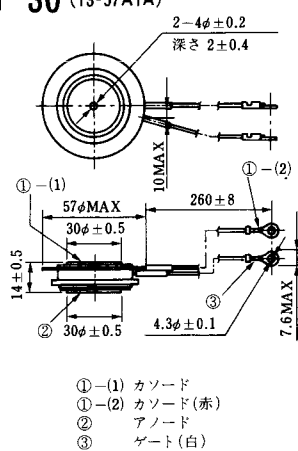
T-28 (13-45E1A)



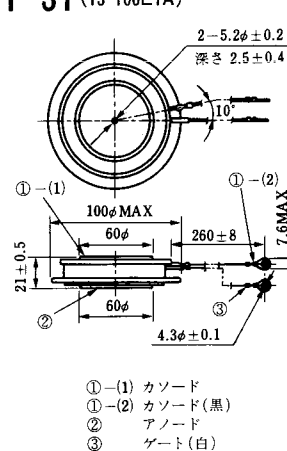
T-29 (13-51A1A)



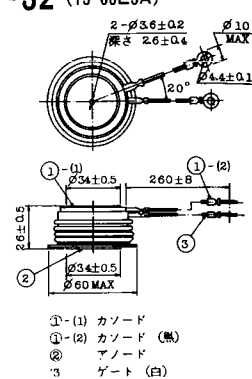
T-30 (13-57A1A)



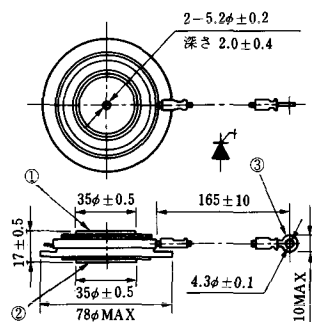
T-31 (13-100E1A)



T-32 (13-60E3A)

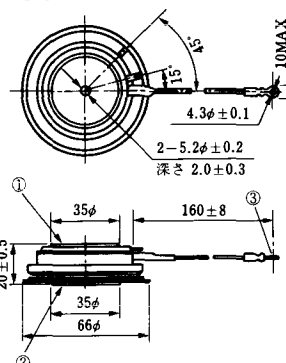


T-33 (13-78B1A)



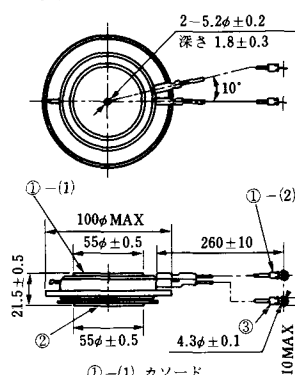
- ① カソード
② アノード
③ ゲート

T-34 (13-66A1A)



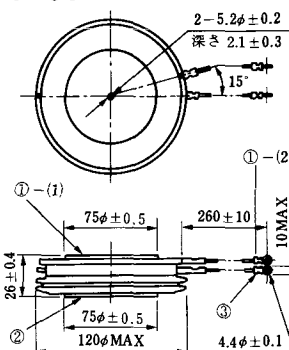
- ① カソード
② アノード
③ ゲート

T-35 (13-100D1A)



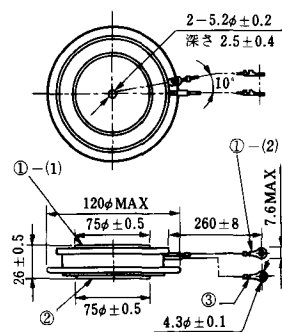
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-36 (13-120E1A)



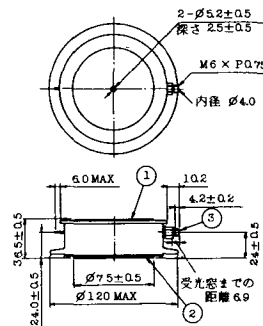
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-37 (13-120A1A)



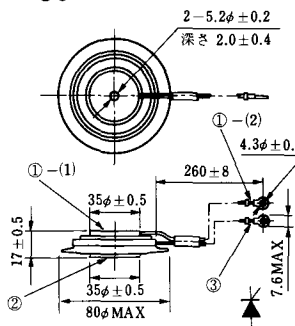
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-38 (13-120C1A)



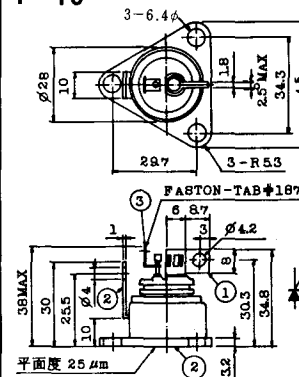
- ① カソード
② アノード
③ ゲート

T-39 (13-80B1A)



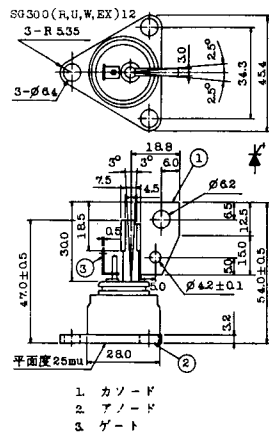
- ①-(1) カソード
①-(2) カソード(黒)
② アノード
③ ゲート(白)

T-40 (13-28A1A)

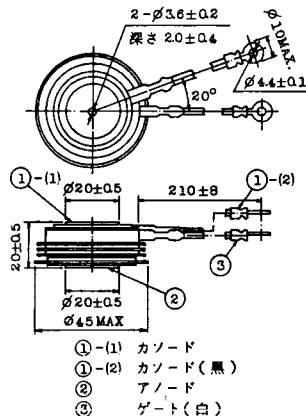


1. カソード
2. アノード
3. ゲート

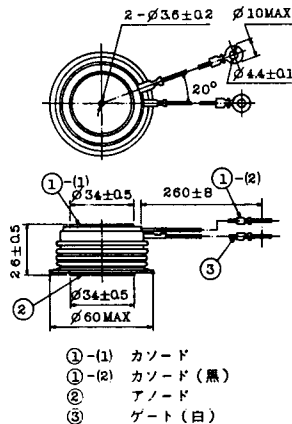
T-41 (13-28A2A)



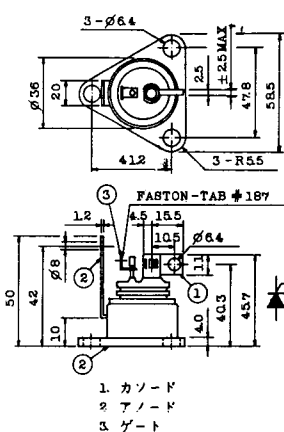
T-42 (13-45F1A)



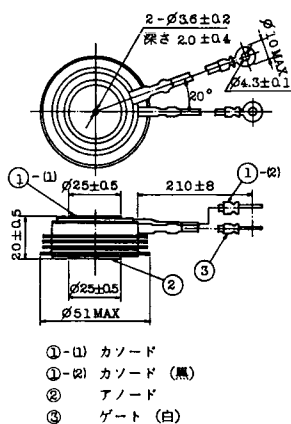
T-43 (13-60E2A)



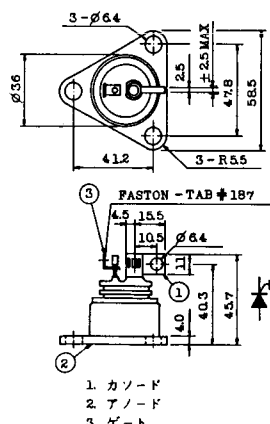
T-44 (13-36A1A)



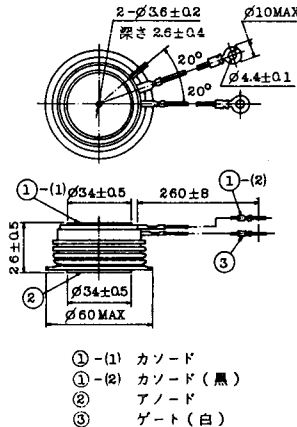
T-45 (13-51B1A)



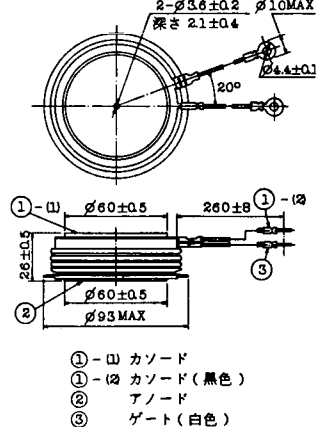
T-46 (13-36B1A)



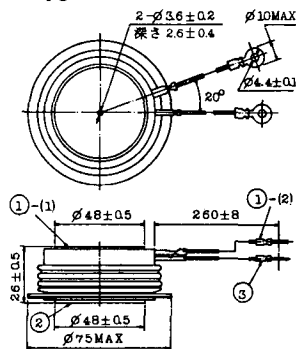
T-47 (13-60E1A)



T-48 (13-93C1A)

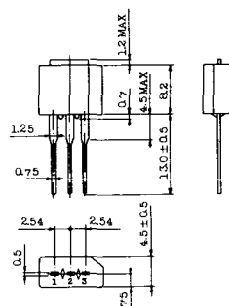


T-49 (13-75A1A)



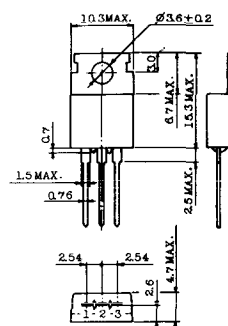
- 1 ①-(1) カソード
1 ①-(2) カソード (黒)
2 アノード
3 ゲート (白)

T-50 (13-10A3A)



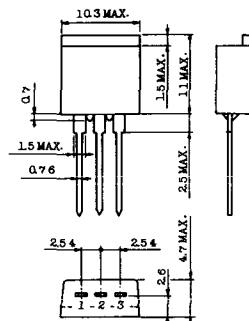
- 1 カソード
2 アノード
3 ゲート

T-51 (13-10D1A)



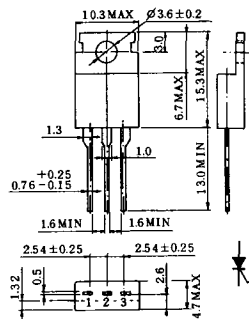
- 1 カソード
2 アノード
3 ゲート

T-52 (13-10D2A)



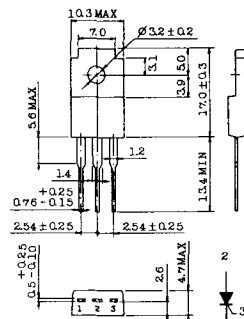
- 1 カソード
2 アノード
3 ゲート

T-53 (13-10E1B)



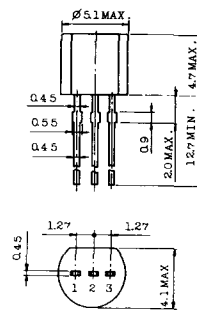
- 1 カソード
2 アノード
3 ゲート

T-54 (13-10F1B)



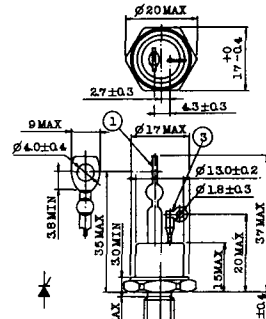
- 1 カソード
2 アノード
3 ゲート

T-55 (13-5A1D)



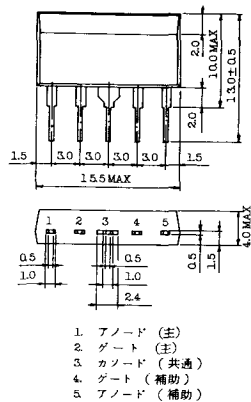
- 1 カソード
2 ゲート
3 アノード

T-56 (13-13C1A)

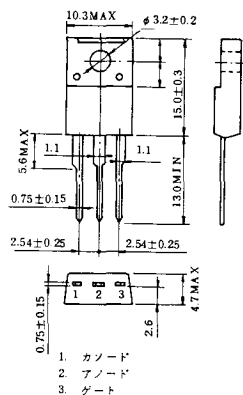


- 1 カソード
2 アノード
3 ゲート

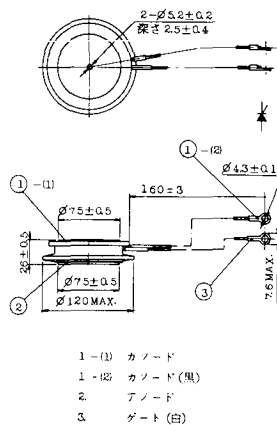
T-57 (12-16C1A)



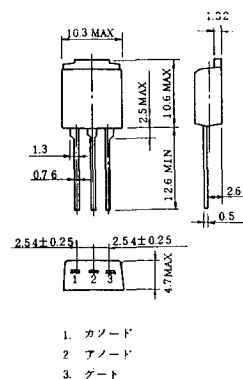
T-58 (13-10H1B)



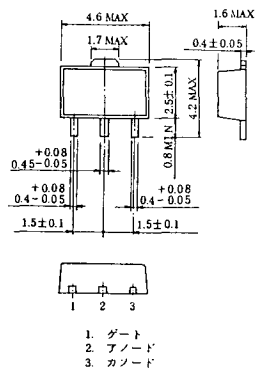
T-59 (13-120A1A)



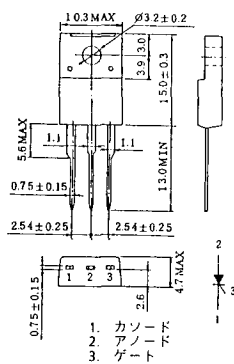
T-60



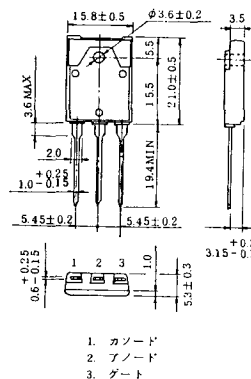
T-61 (13-5B1A)



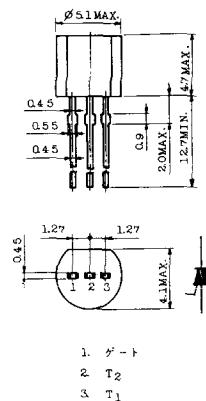
T-62 (13-10H1A)



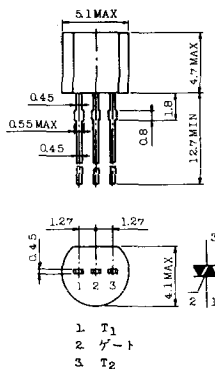
T-63 (13-16A1B)



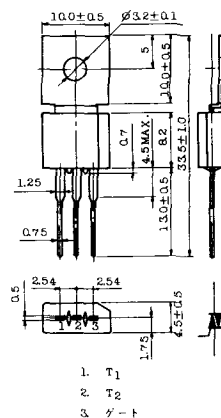
TT-1



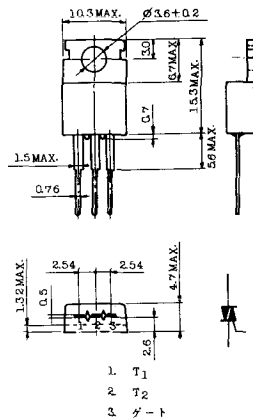
TT-2



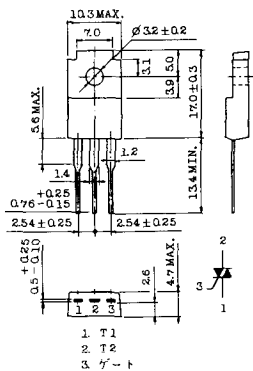
TT-3



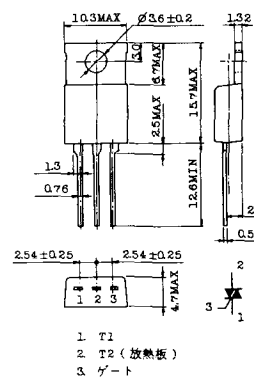
TT-4



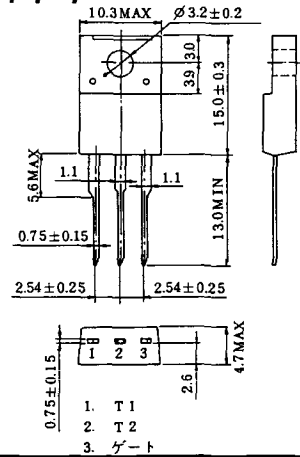
TT-5



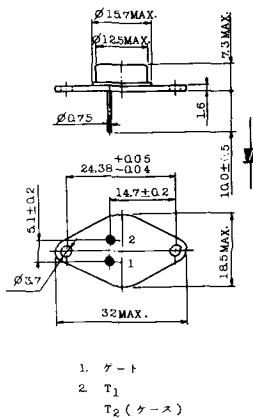
TT-6



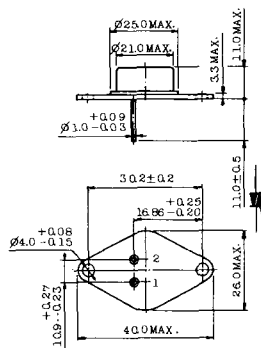
TT-7



TT-8

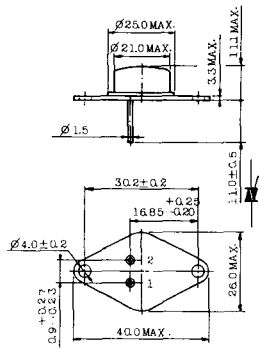


TT-9



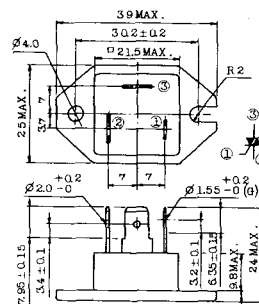
1. ゲート
2. T₁
3. T₂ (ケース)

TT-10



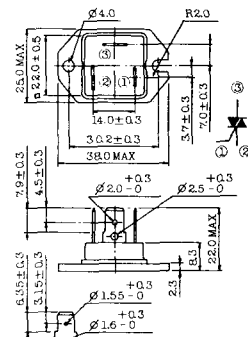
1. ゲート
2. T₁
3. T₂ (ケース)

TT-11



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

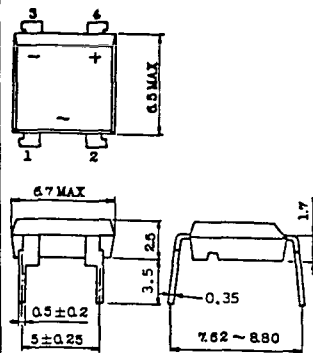
TT-12



ゲート端子詳細

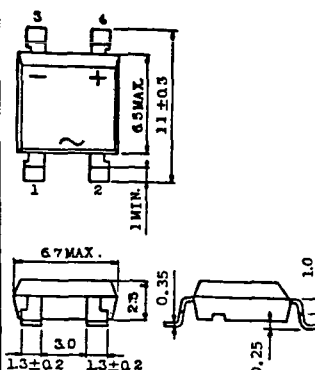
- ① ゲート (ファストン端子 #187)
- ② T₁ (" #250)
- ③ T₂ (" #250)

TT-13



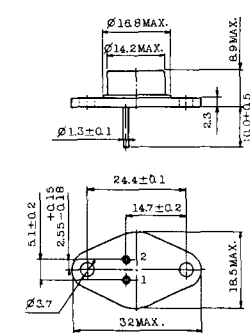
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-14



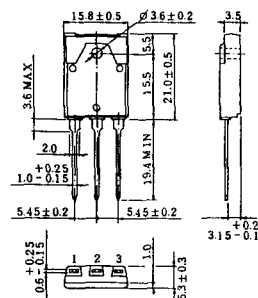
- 1, 2: T₂
- 3: GATE
- 4: T₁

TT-15 (13-14A1B)



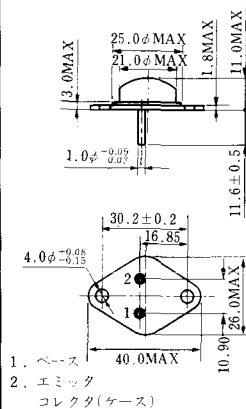
1. ゲート
2. T₁
- T₂ (ケース)

TT-16 (13-16A1A)

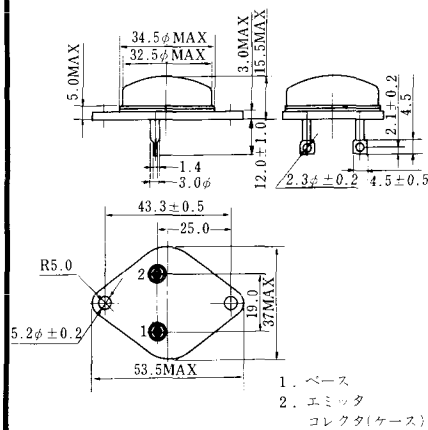


1. T₁
2. T₂
3. ゲート

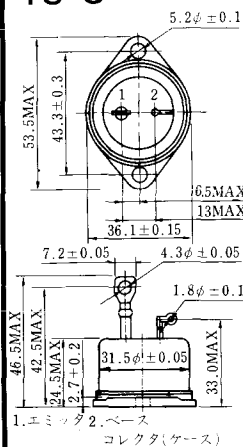
TS-1



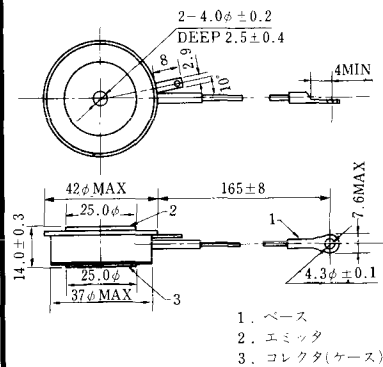
TS-2



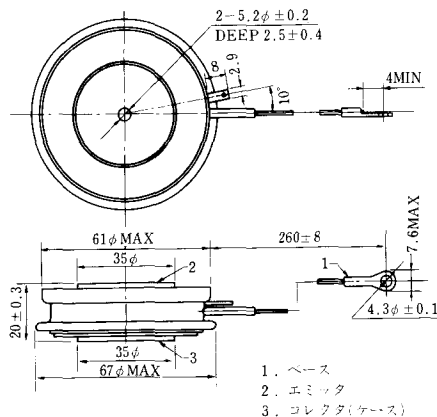
TS-3



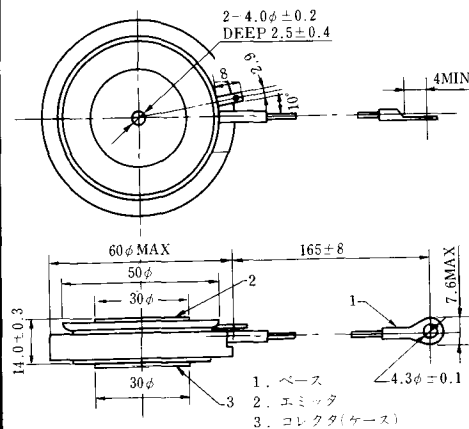
TS-4



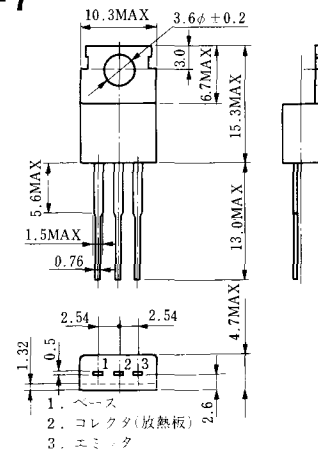
TS-5

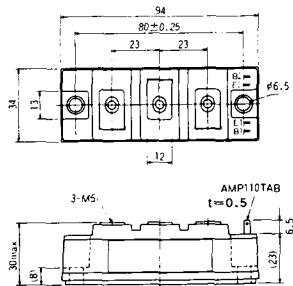
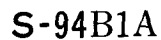
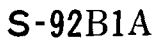
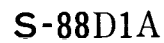
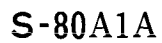


TS-6

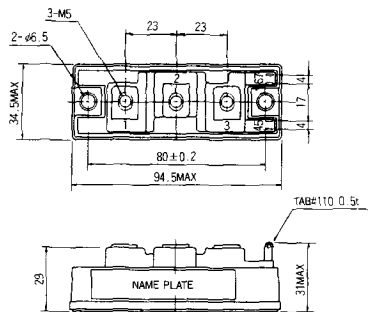


TS-7

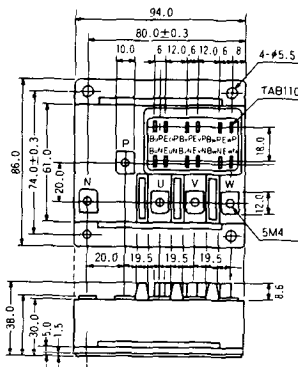




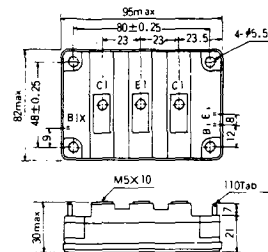
S-94B2A



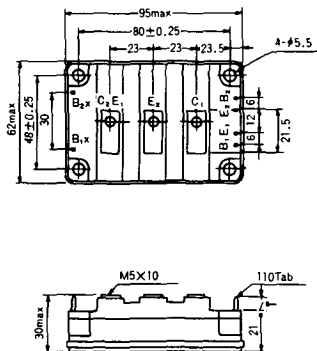
S-94D1A



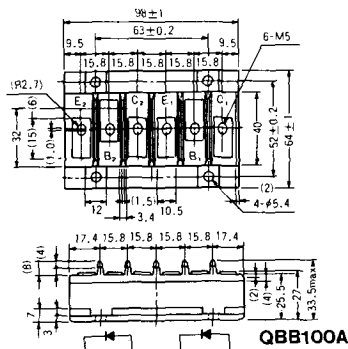
S-95A1A



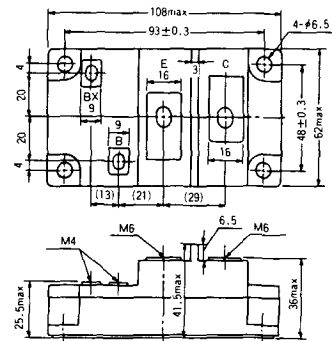
S-95B1A



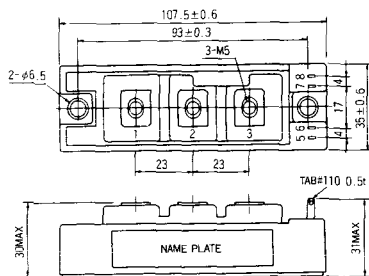
S-98B1B



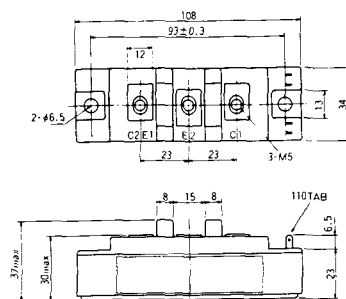
S-108A2A



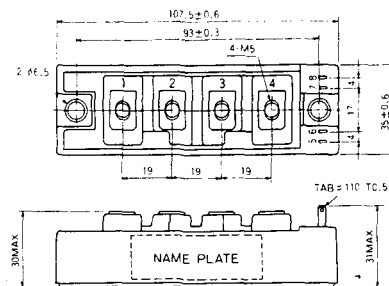
S-108B1A



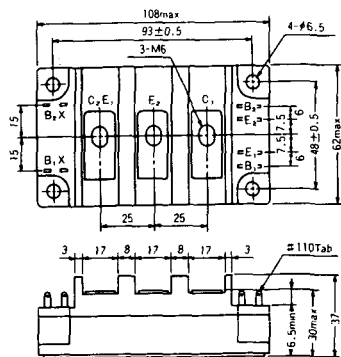
S-108B1B



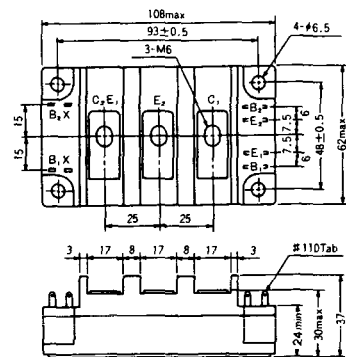
S-108B1C



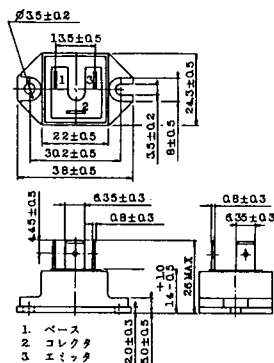
S-108B2A



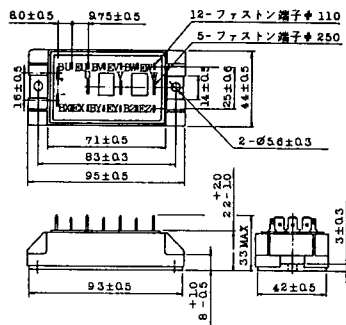
S-108B2B



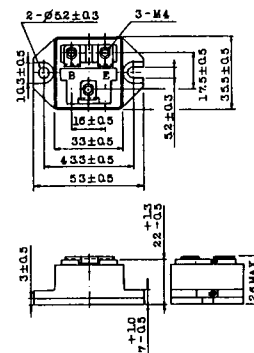
2-22B1A



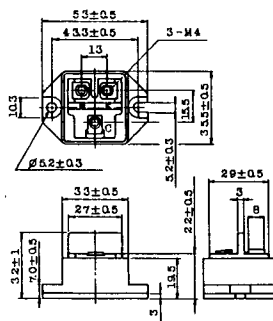
2-27A4A



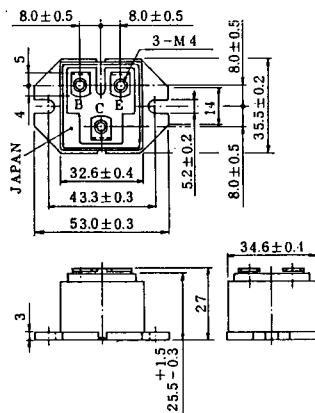
2-33C1A



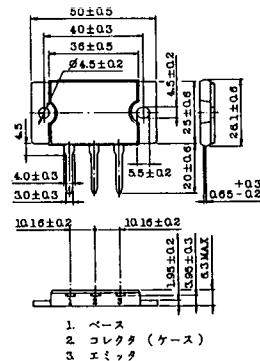
2-33D1A



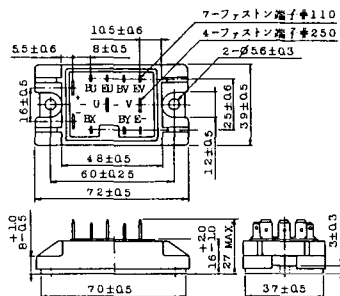
2-33F1A



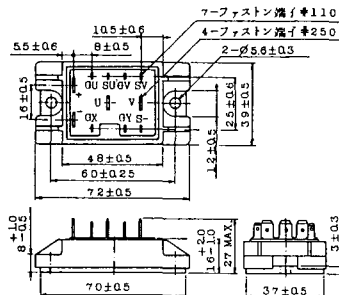
2-37A1A



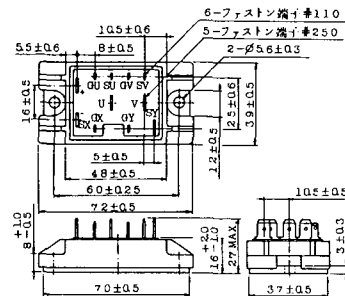
2-48A3A



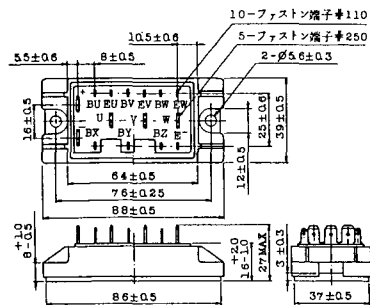
2-48A3B



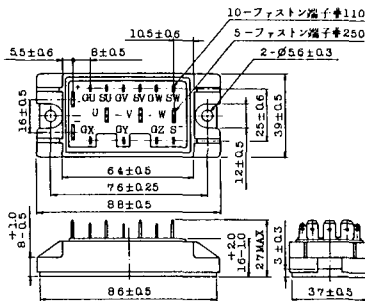
2-48A4A



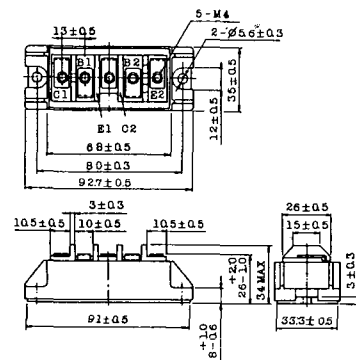
2-64A2A



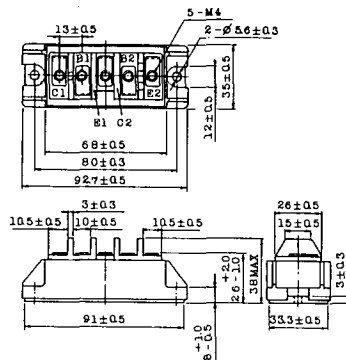
2-64A2B



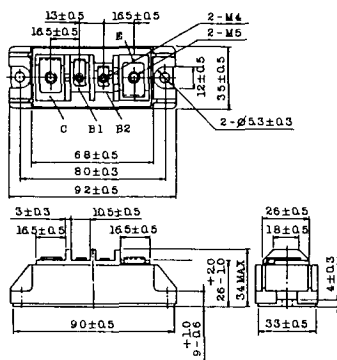
2-68A2A



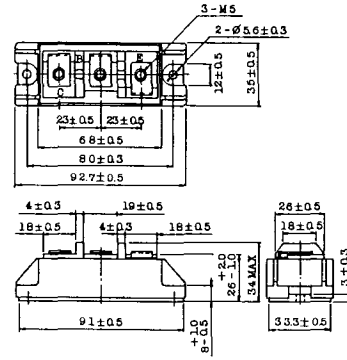
2-68B2A



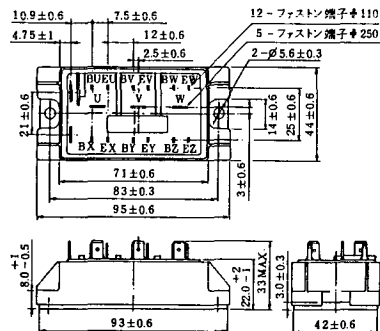
2-68C1A



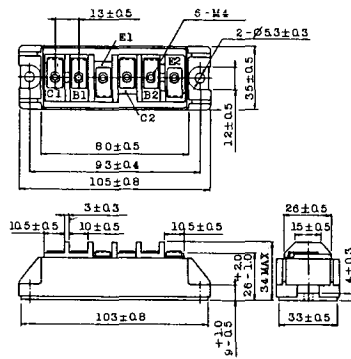
2-68D2A



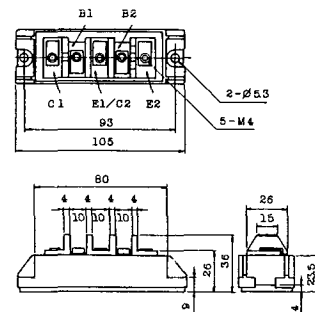
2-72A3A



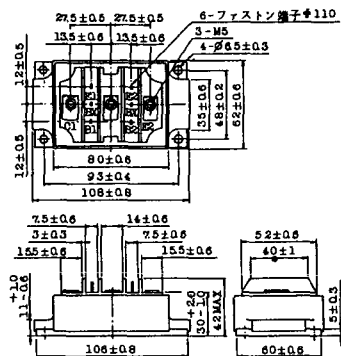
2-80A1A



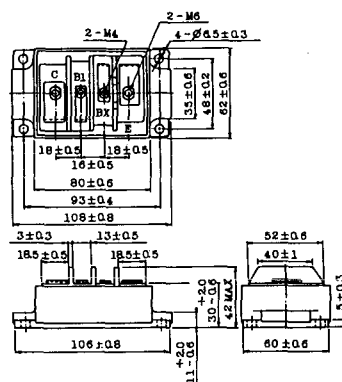
2-80B1A



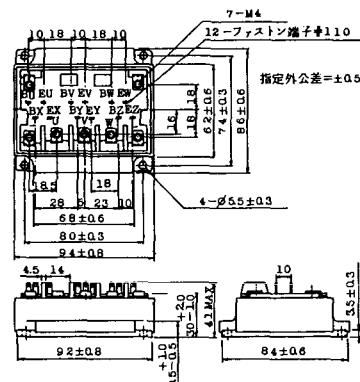
2-80C1A



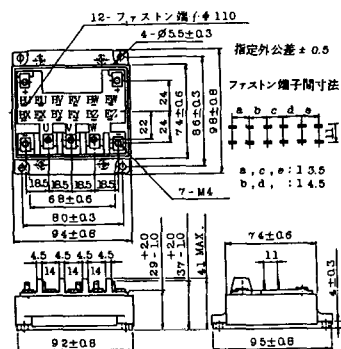
2-80D2A



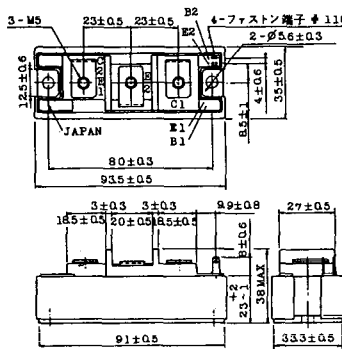
2-94A2A



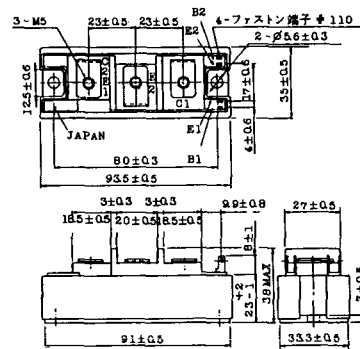
2-94B1A



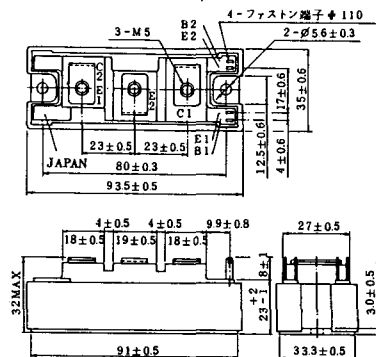
2-94C2A



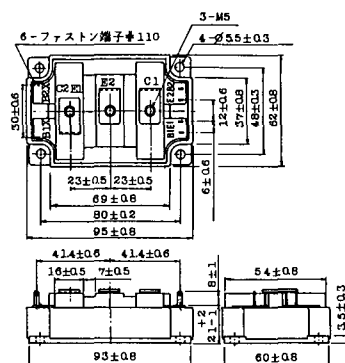
2-94C3A



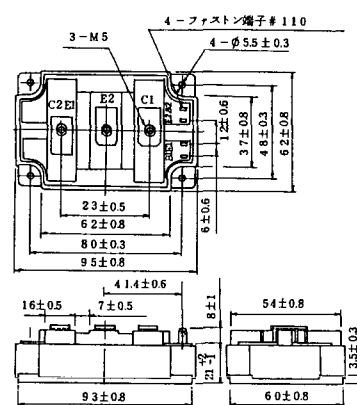
2-94D1A



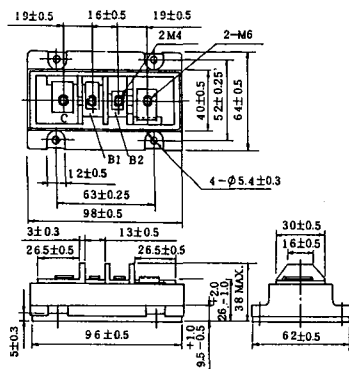
2-96A3A



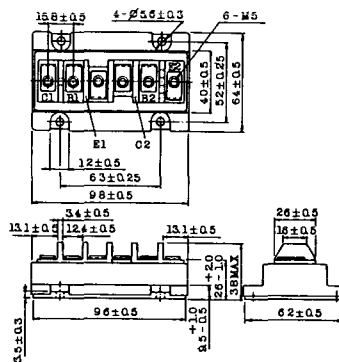
2-96A4A



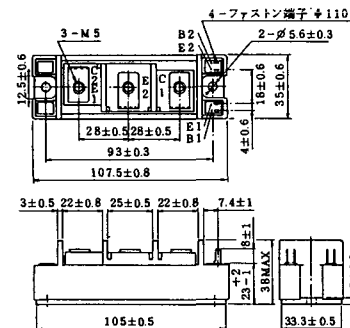
2-98B1A



2-98C2A

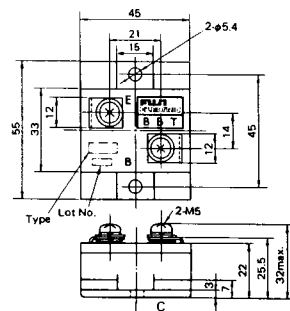


2-108A2A



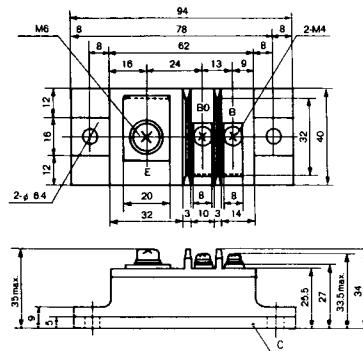
BBT-II

BBTII
1D200A-020



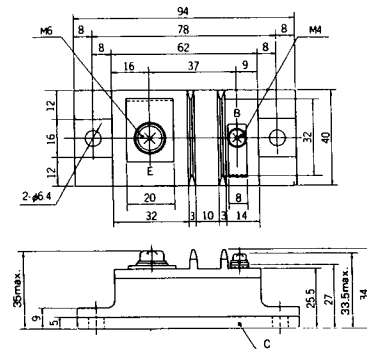
BBT-III

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



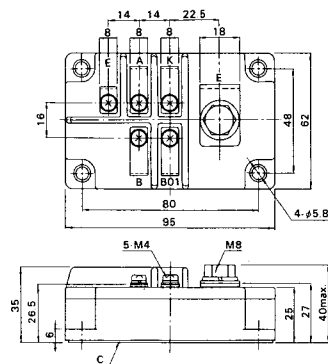
BBT-III

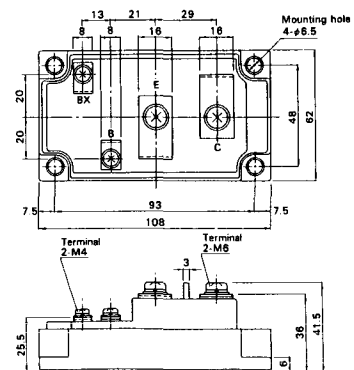
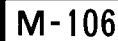
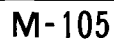
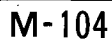
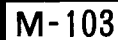
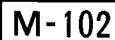
BBTIII
ETN01-055
ET1257



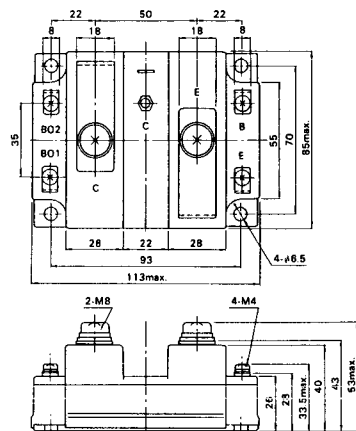
BBT-IV

BBTIV
1D500A-030

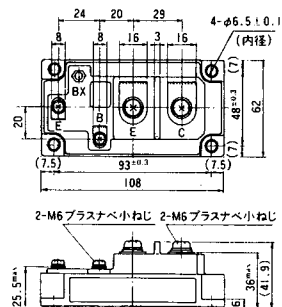




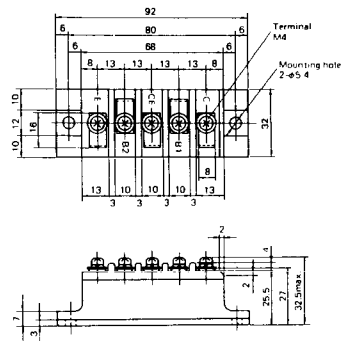
M-107



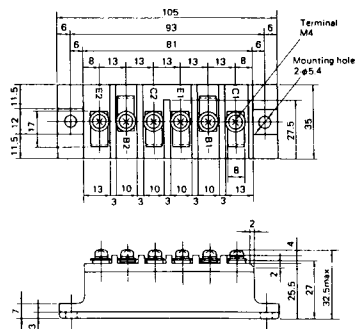
M-116



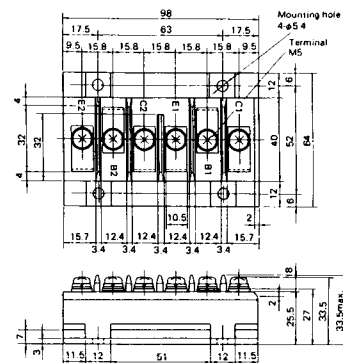
M-201



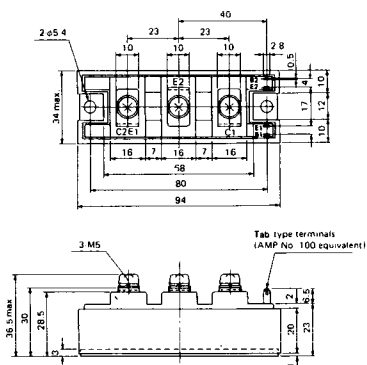
M-202



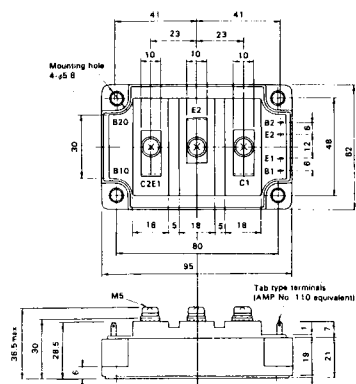
M-203



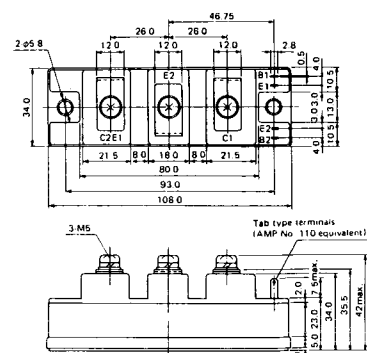
M-204



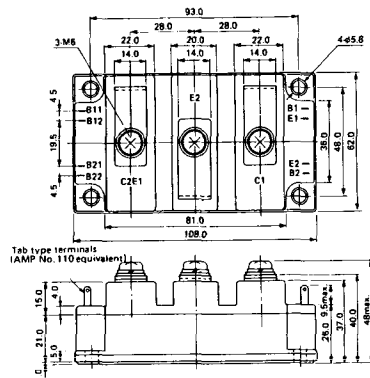
M-205



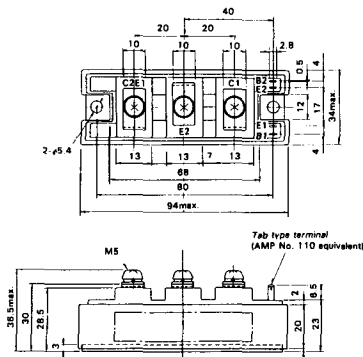
M-206



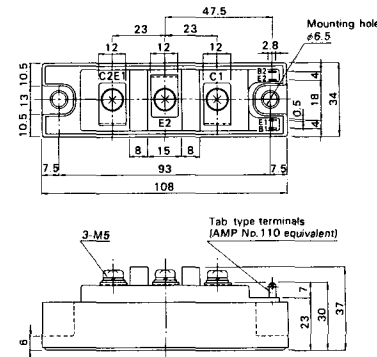
M-207



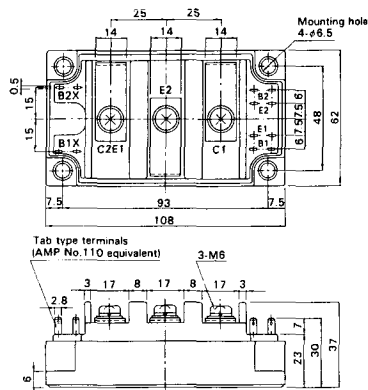
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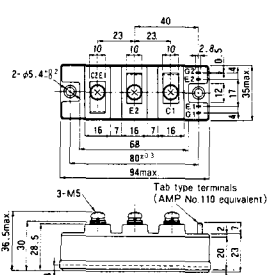
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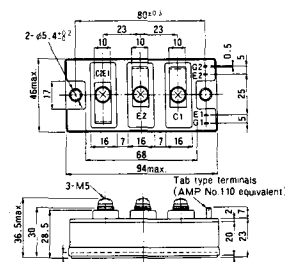
M-210

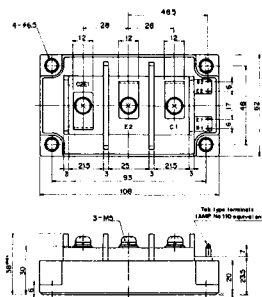
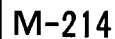


M-211



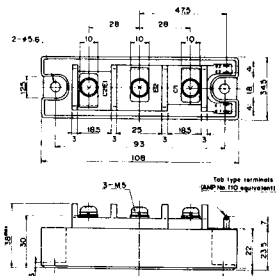
M-212



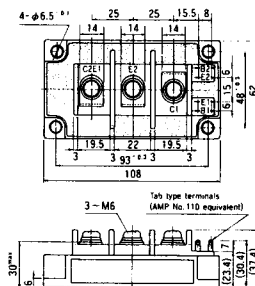


M-215

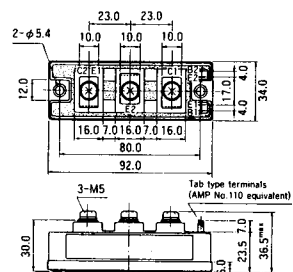
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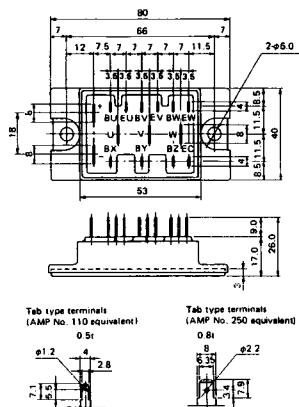
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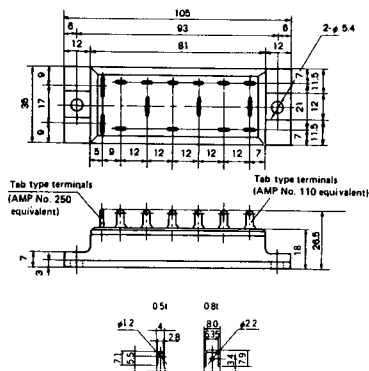
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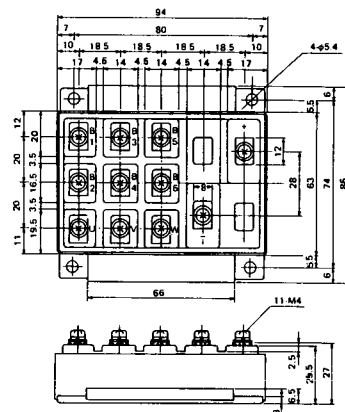
M-601



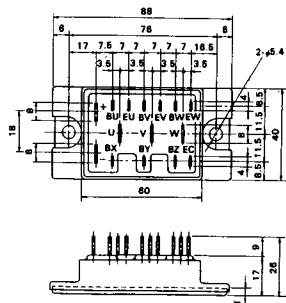
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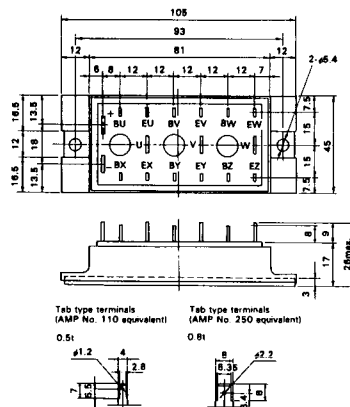
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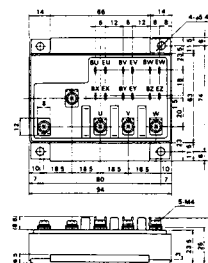
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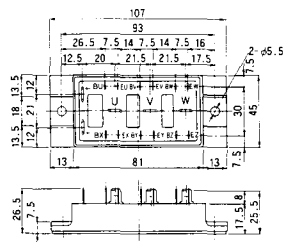
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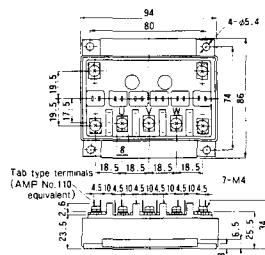
M-606



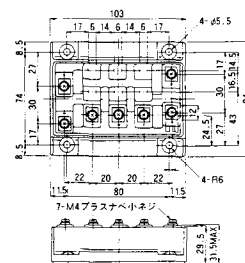
M-607



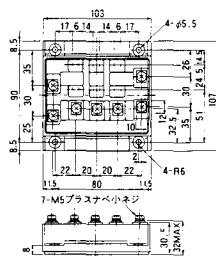
M-608



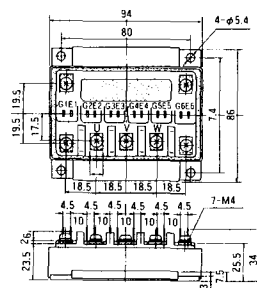
M-609



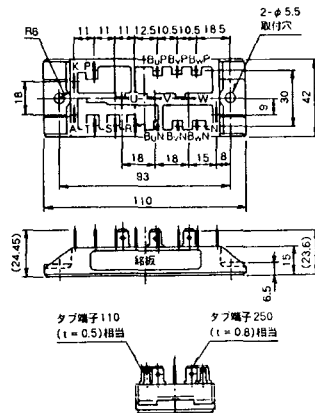
M-610



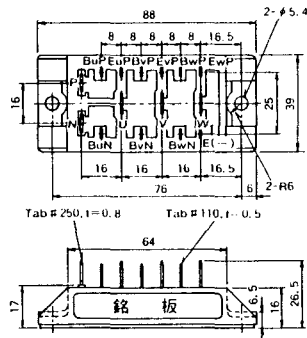
M-616



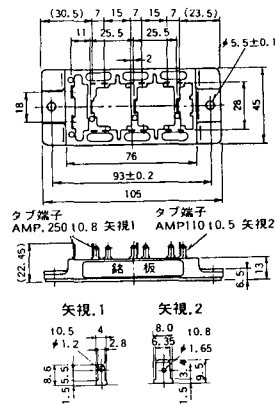
M-2E6A



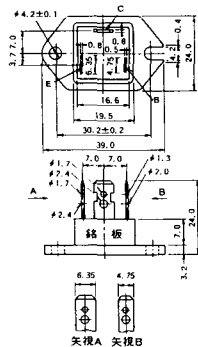
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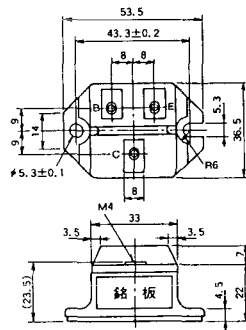
M-2G6A



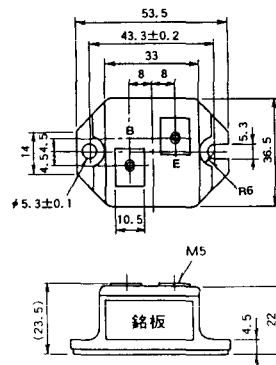
M-3A1A



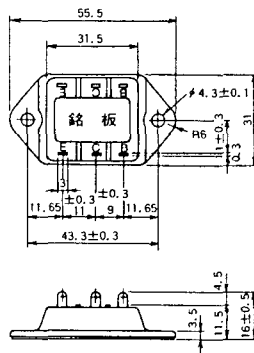
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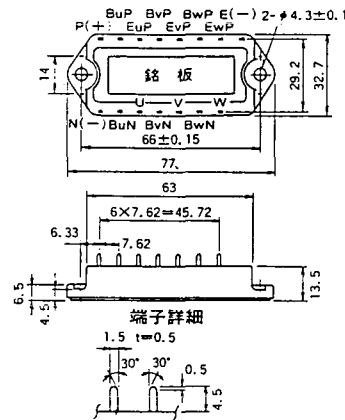
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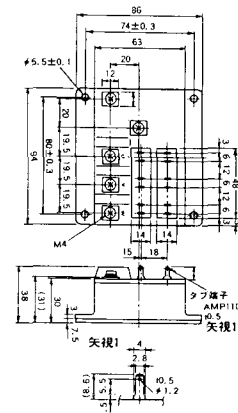
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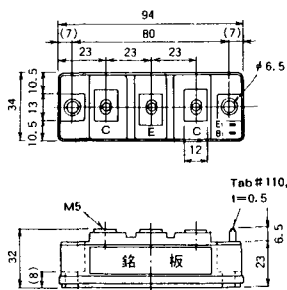
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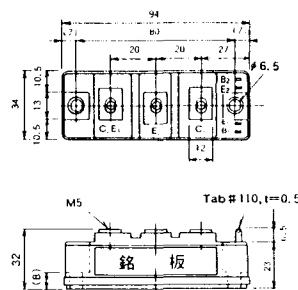
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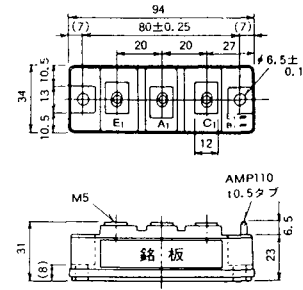
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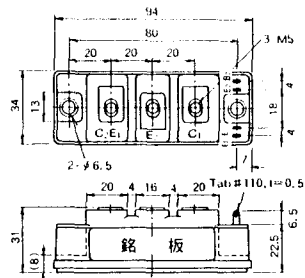
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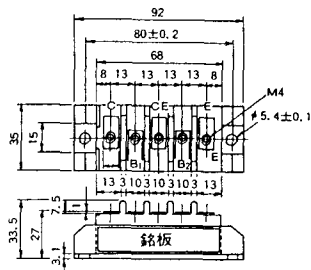
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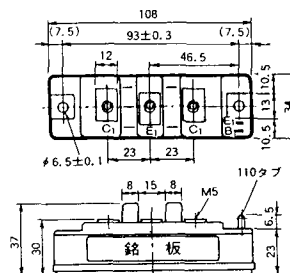
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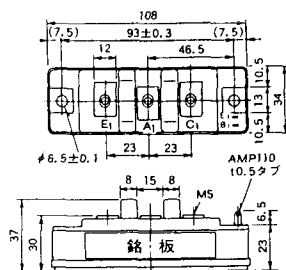
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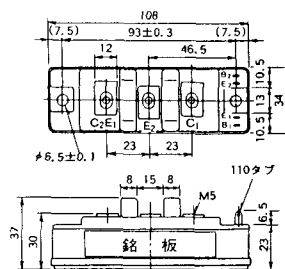
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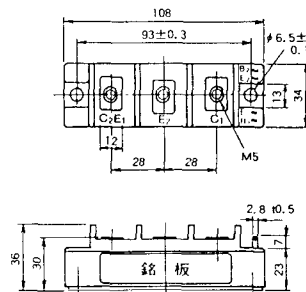
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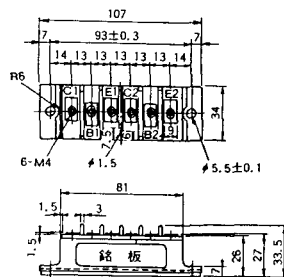
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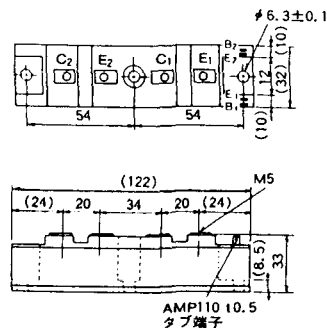
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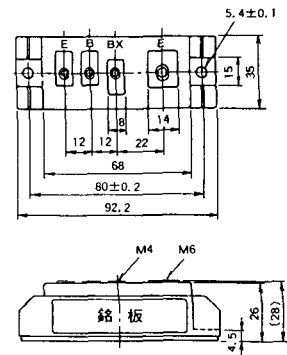
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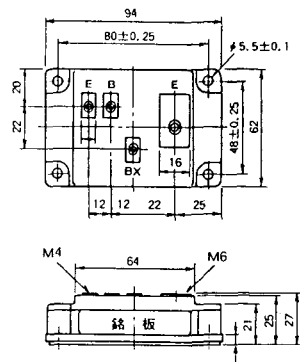
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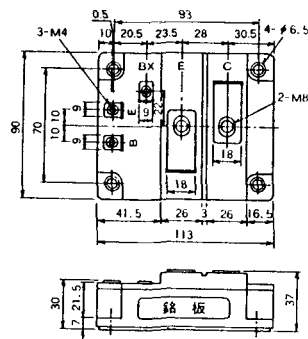
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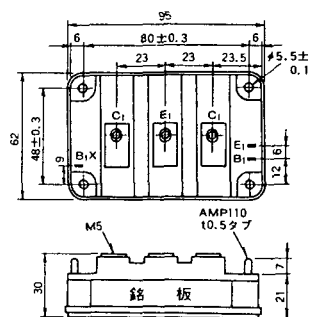
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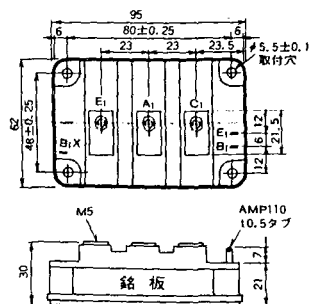
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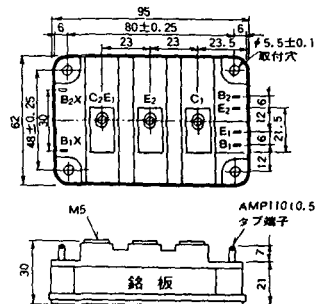
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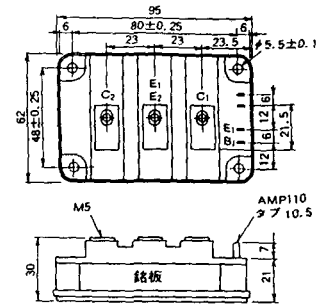
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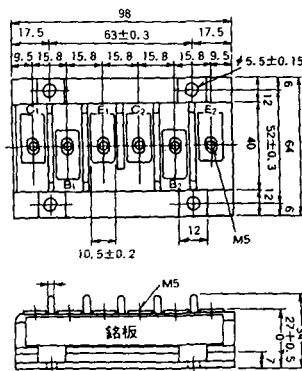
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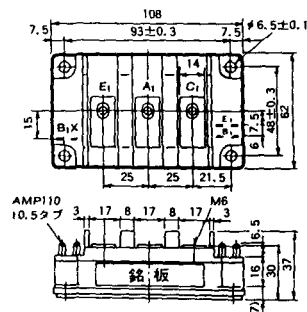
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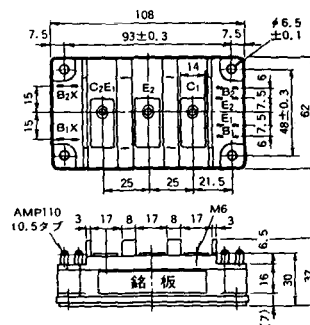
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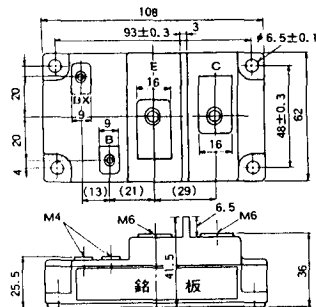
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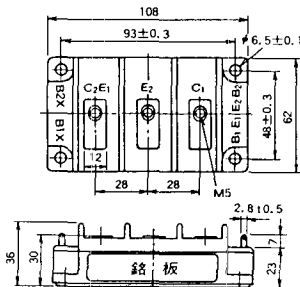
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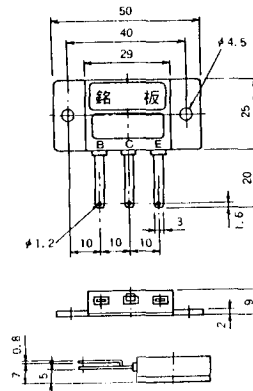
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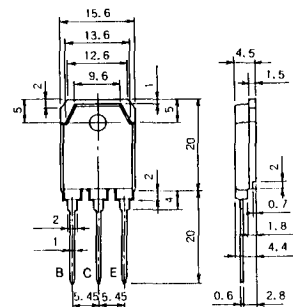
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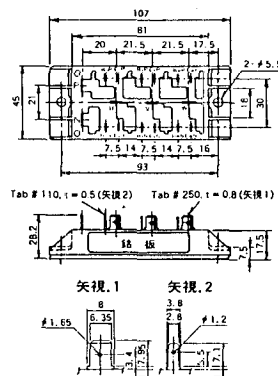
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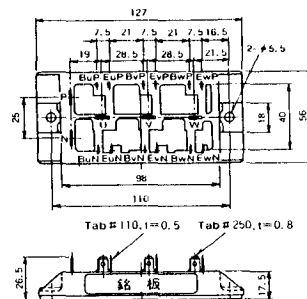
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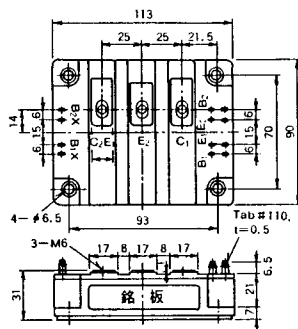
M-2E6B



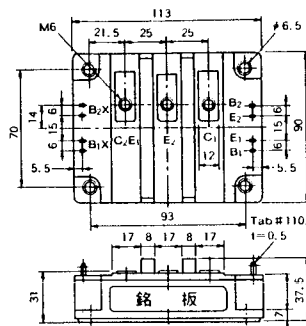
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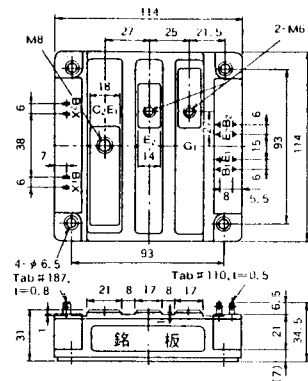
M-10A2A



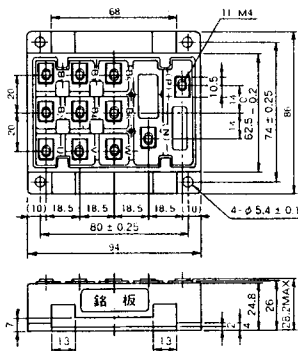
M-10A2B



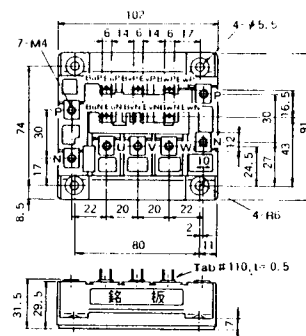
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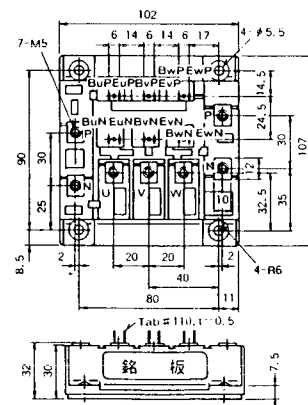
M-12A6A



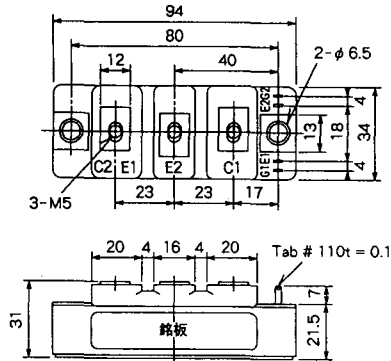
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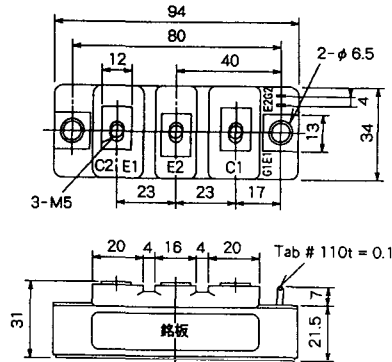
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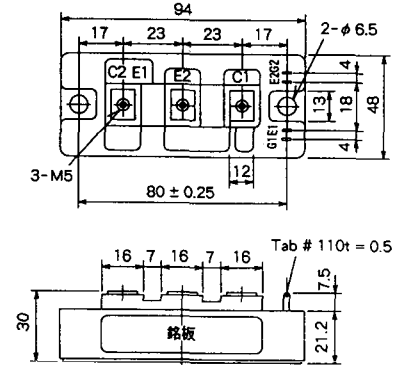
M-4A2D



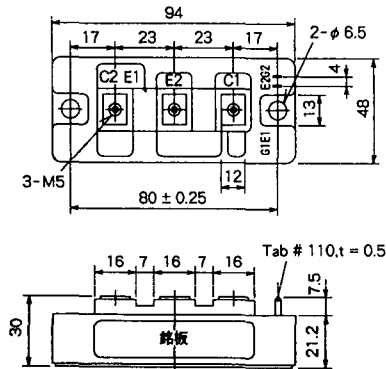
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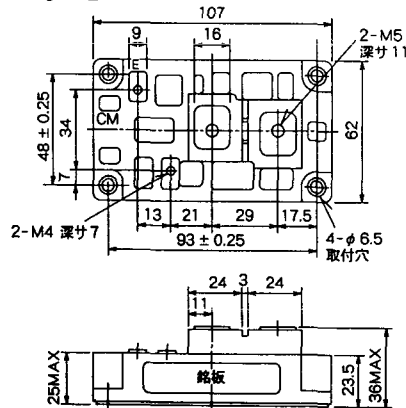
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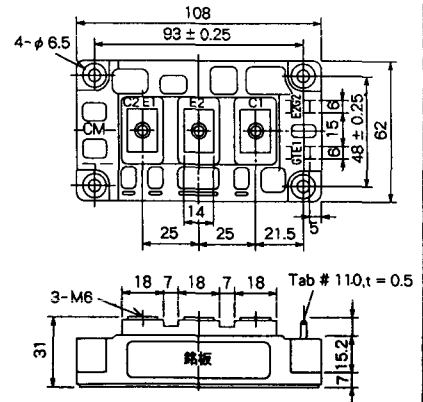
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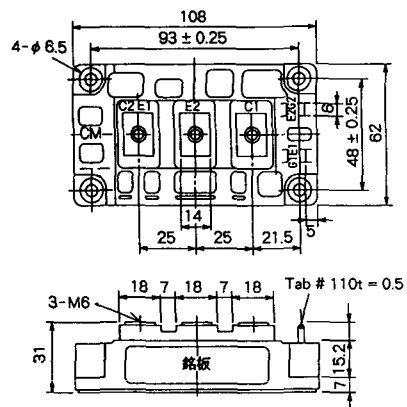
M-9B1C



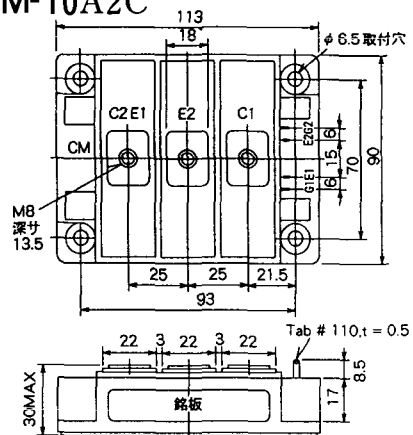
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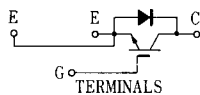
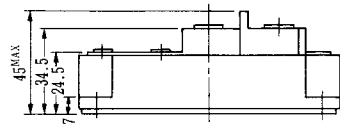
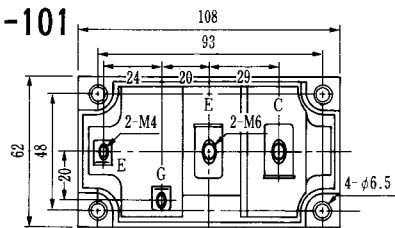
M-9D2B



M-10A2C



H-101

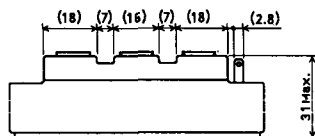
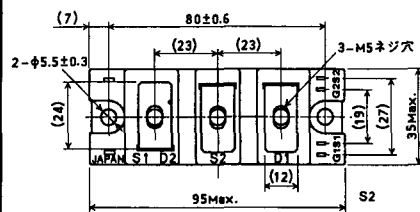


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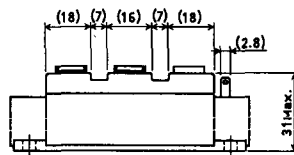
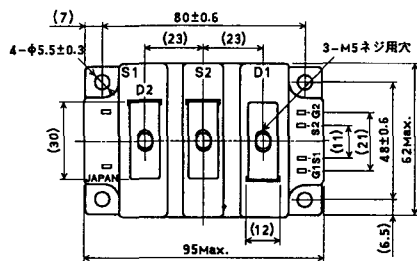
TERMINALS



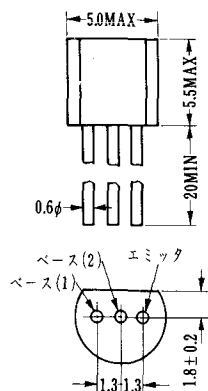
LF-J



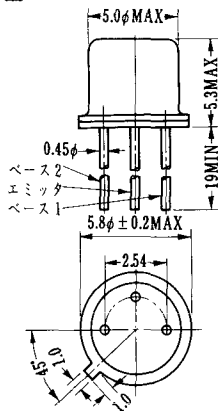
LF-K



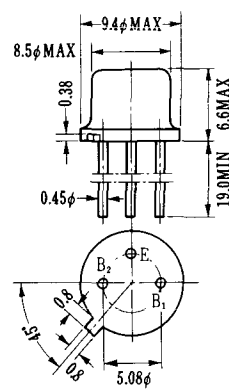
U-1



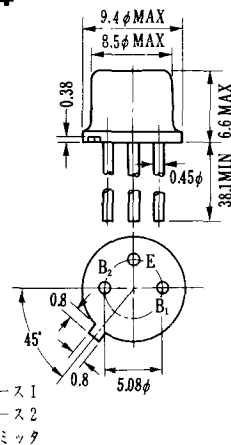
U-2



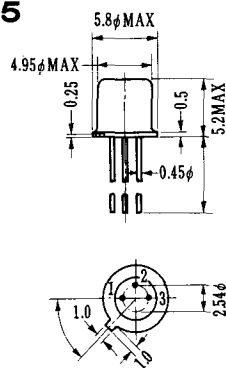
U-3



U-4

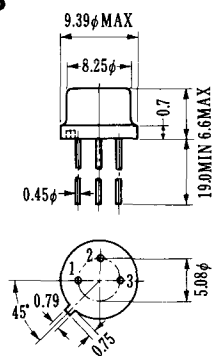


U-5



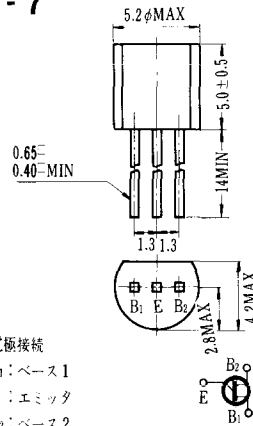
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



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

U-7



U-8

