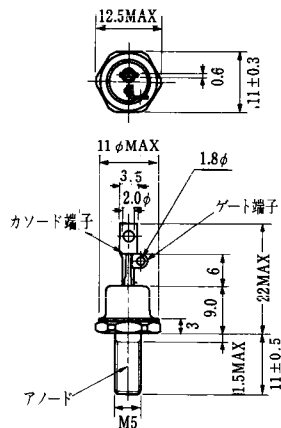


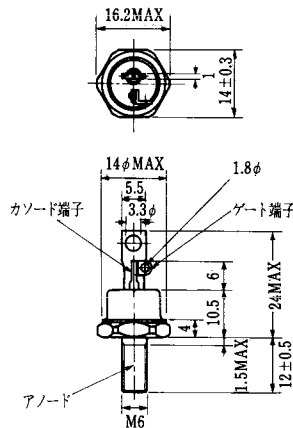
SG700 <sup>+</sup> R, U, W, EX <sub>22</sub>						■外形図番号 T-45 (13-51B1A)					
○チョップパ、インバータ用						■電気的特性					
○200A, 1300V~2500V											
■最大定格						記 号	測 定 条 件	Min	Typ	Max	単 位
記 号	SG700R22	SG700U22	SG700W22	SG700EX22	単 位	$I_{RRM}$	$T_J=125^{\circ}\text{C}$ , $V_D=V_{RRM}$			10	mA
$V_{RRM}$			15		V	$I_{DRM}$	$T_J=125^{\circ}\text{C}$ , $V_D=V_{DRM}$ , $R_{GK}=20\Omega$			10	mA
$V_{DRM}$	1300	1600	1800	2500		$V_{TM}$	$T_c=25^{\circ}\text{C}$ , $I_{TM}=700\text{A}$			2.7	V
$I_{TRM}$	700 ( $V_D=\frac{1}{2}V_{DRM}$ , $V_{DM}=\frac{3}{4}V_{DRM}$ , $C_s=2\mu\text{F}$ , $R_G=20\Omega$ , $T_J=125^{\circ}\text{C}$ )					$V_{GT}$	$T_c=25^{\circ}\text{C}$ , $V_D=12\text{V}$	0.75	1.0		V
$I_{TRMS}$	200 ( $T_J=70^{\circ}\text{C}$ )					$I_{GT}$	$R_L=0.5\Omega$	350	700		mA
$I_{TSM}$	4000/4400 (50Hz/60Hz, 正弦半波1サイクル)					$V_{GD}$	$T_c=125^{\circ}\text{C}$ , $V_D=\frac{1}{2}V_{DRM}$	0.3			V
$I^2 \cdot t$						$I_{GD}$		5			mA
$di/dt$	200 ( $I_{GP}=12\text{A}$ , $t_r=1\mu\text{s}$ , $V_D=\frac{1}{2}V_{DRM}$ , $I_{TM}=700\text{A}$ , $f=50\text{Hz}$ , $T_J=125^{\circ}\text{C}$ )					$I_d$	$T_c=25^{\circ}\text{C}$ , $V_D=\frac{1}{2}V_{DRM}$ , $I_{GP}=12\text{A}$			2.0	$\mu\text{s}$
$I_{GFM}$	30 (パルス幅: max. 20 $\mu\text{s}$ , duty: max. 20%)					$I_{kt}$	$I_{TM}=700\text{A}$ , $di/dt=200\text{A}/\mu\text{s}$			6.0	
$P_{GFI(V)}$	6					$dv/dt$	$T_J=125^{\circ}\text{C}$ , $V_D=\frac{3}{4}V_{DRM}$ , $V_{GK}=-2\text{V}$	600			V/ $\mu\text{s}$
$I_{GR(RMS)}$	35					$I_H$	$T_c=25^{\circ}\text{C}$ , $R_L=0.5\Omega$		20		A
$P_{GRM}$	4000 (パルス幅: max. 20 $\mu\text{s}$ , duty: max. 2%)					$I_L$	$T_c=120^{\circ}\text{C}$ , $I_{TM}=700\text{A}$			14	
$V_{GRM}$	15					$I_{eq}$	$V_D=\frac{1}{2}V_{DRM}$ , $V_{DM}=\frac{3}{4}V_{DRM}$			16	$\mu\text{s}$
$T_J$	125					$t_{tail}$	$C_s=2\mu\text{F}$ , $R_G=20\Omega$			76	
$T_{Jk}$	-40~-125					$I_{GR}$	$dig/dt=-20\text{A}/\mu\text{s}$		160	190	A
						$R_{th}$	接合~フィン間, DC			0.085	$^{\circ}\text{C}/\text{W}$

SG800 <sup>+</sup> R, U, W, EX <sub>11</sub> SG800 <sup>+</sup> R, U, W, EX <sub>12</sub>						■外形図番号 SG800 <sup>+</sup> J11: T-44 (13-36A1A) SG800 <sup>+</sup> J12: T-46 (13-36B1A)					
○チョップパ、インバータ用						■電気的特性					
■最大定格						記 号	測 定 条 件	Min	Typ	Max	単 位
記 号	SG800R11 SG800R12	SG800U11 SG800U12	SG800W11 SG800W12	SG800EX11 SG800EX12	単 位	$I_{RRM}$	$T_J=125^{\circ}\text{C}$ , $V_D=V_{RRM}$			10	
$V_{RRM}$			15		V	$I_{DRM}$	$T_J=125^{\circ}\text{C}$ , $V_D=V_{DRM}$ , $R_{GK}=20\Omega$			10	mA
$V_{DRM}$	1300	1600	1800	2500		$I_{GRM}$	$T_J=125^{\circ}\text{C}$ , $V_D=V_{GRM}$			10	
$I_{TRM}$	800 ( $V_D=\frac{1}{2}V_{DRM}$ , $V_{DM}=\frac{3}{4}V_{DRM}$ , $C_s=2\mu\text{F}$ , $R_G=20\Omega$ , $T_J=125^{\circ}\text{C}$ )					$V_{TM}$	$T_c=25^{\circ}\text{C}$ , $I_{TM}=800\text{A}$			2.4	V
$I_{TRMS}$	300 ( $T_J=70^{\circ}\text{C}$ )					$V_{GT}$	$T_c=25^{\circ}\text{C}$ , $V_D=12\text{V}$	0.75	1.0		V
$I_{TSM}$	5000/5500 (50Hz/60Hz, 正弦半波1サイクル)					$I_{GT}$	$R_L=0.5\Omega$	350	700		mA
$I^2 \cdot t$						$V_{GD}$	$T_c=125^{\circ}\text{C}$ , $V_D=\frac{1}{2}V_{DRM}$	0.3			V
$di/dt$	200 ( $I_{GP}=12\text{A}$ , $t_r=1\mu\text{s}$ , $V_D=\frac{1}{2}V_{DRM}$ , $I_{TM}=800\text{A}$ , $f=50\text{Hz}$ , $T_J=125^{\circ}\text{C}$ )					$I_{GD}$		4			mA
$I_{GFM}$	30 (パルス幅: max. 20 $\mu\text{s}$ , duty: max. 20%)					$t_d$	$T_c=25^{\circ}\text{C}$ , $V_D=\frac{1}{2}V_{DRM}$			3.0	$\mu\text{s}$
$P_{GFI(V)}$	6					$t_{kt}$	$I_{TM}=800\text{A}$ , $di/dt=200\text{A}/\mu\text{s}$ $I_{GP}=12\text{A}$ , $t_r=1\mu\text{s}$			8.0	
$I_{GR(RMS)}$	35					$dv/dt$	$T_J=125^{\circ}\text{C}$ , $V_D=\frac{3}{4}V_{DRM}$ $V_{GK}=-2\text{V}$	600			V/ $\mu\text{s}$
$P_{GRM}$	4000 (パルス幅: max. 20 $\mu\text{s}$ , duty: max. 2%)					$I_H$	$T_c=25^{\circ}\text{C}$ , $R_L=0.5\Omega$		20		A
$V_{GRM}$	15					$I_L$	$T_c=120^{\circ}\text{C}$ , $I_{TM}=800\text{A}$			14	
$T_J$	125					$t_{eq}$	$V_D=\frac{1}{2}V_{DRM}$ $V_{DM}=\frac{3}{4}V_{DRM}$			16	$\mu\text{s}$
$T_{Jk}$	-40~-125					$t_{tail}$	$C_s=2\mu\text{F}$ $R_S=20\Omega$ $dig/dt=-20\text{A}/\mu\text{s}$			76	
						$I_{GR}$			170	200	A
						$R_{th}$	接合~ケース間, DC			0.09	$^{\circ}\text{C}/\text{W}$

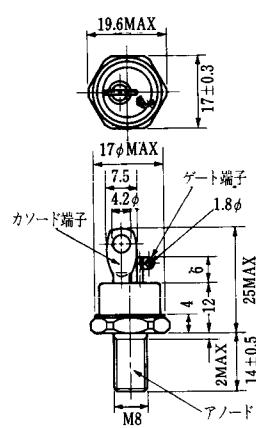
FD-1



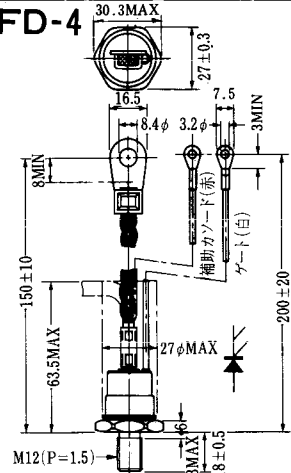
FD-2



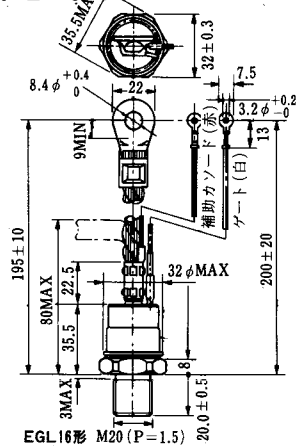
FD-3



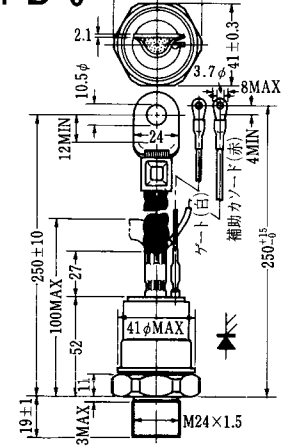
FD-4



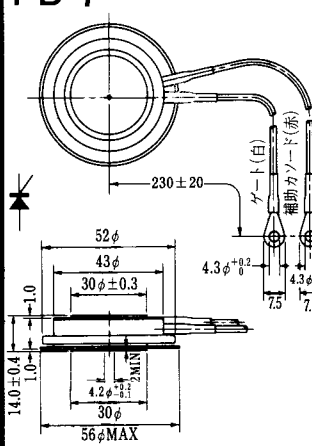
FD-5



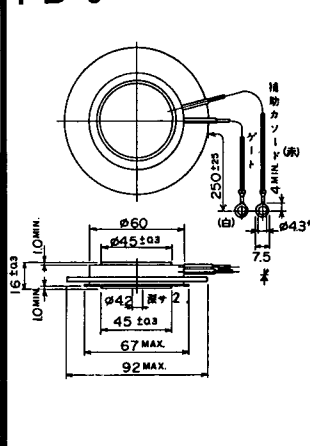
FD-6



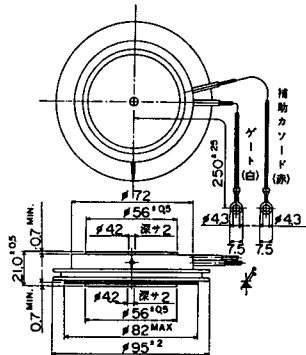
FD-7



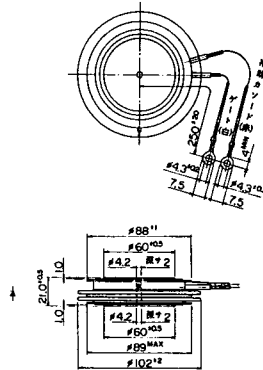
FD-8



**FD-9**

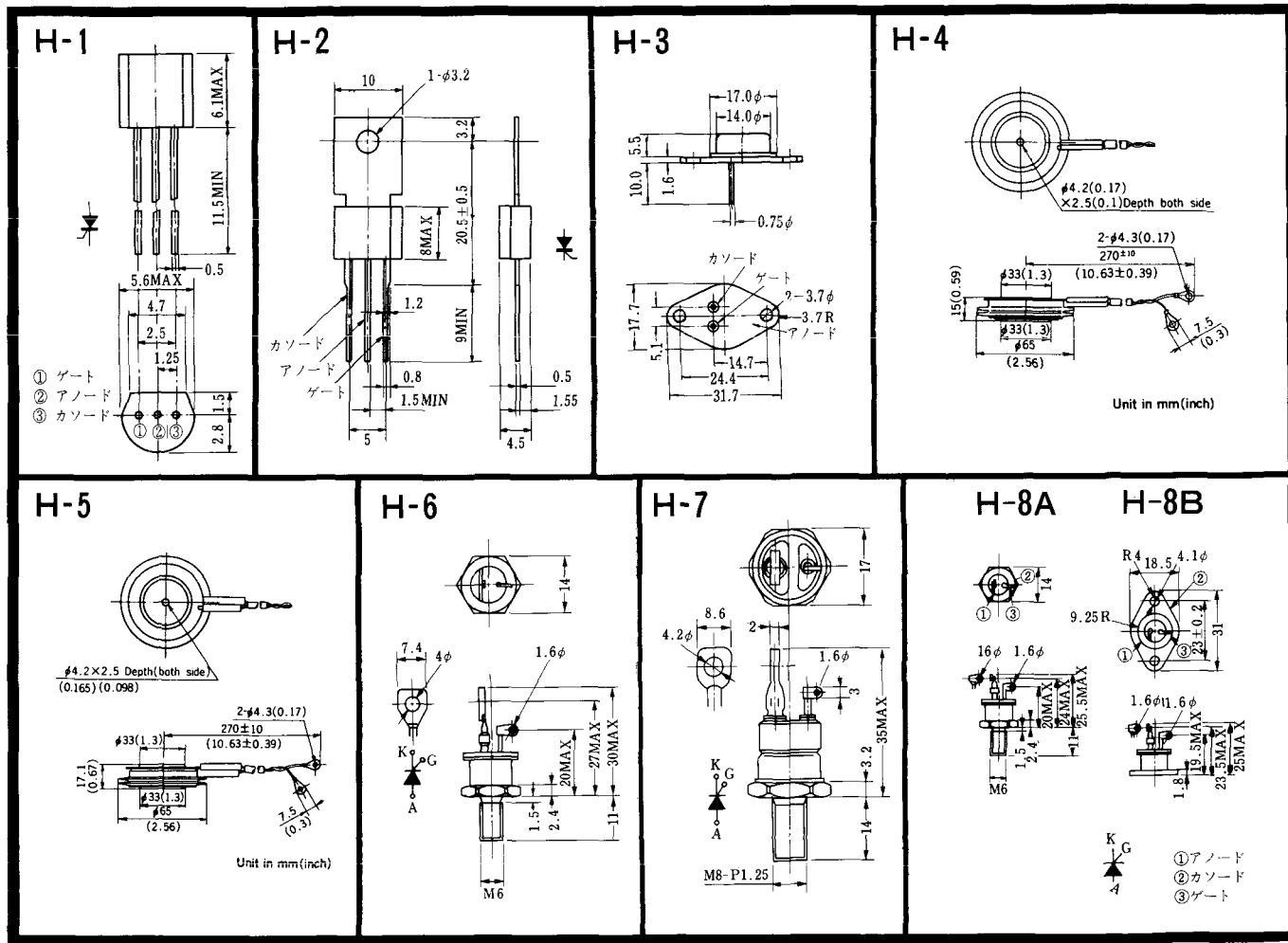


FD-10

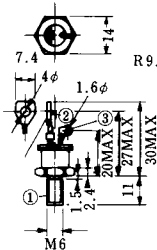


FD-11

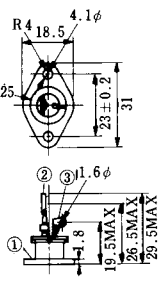
FD-12



# H-9A

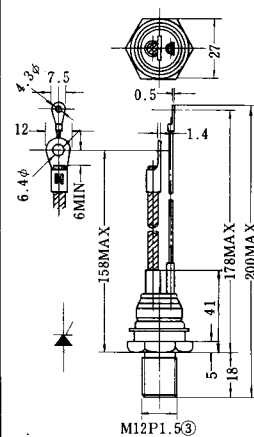


# H-9B



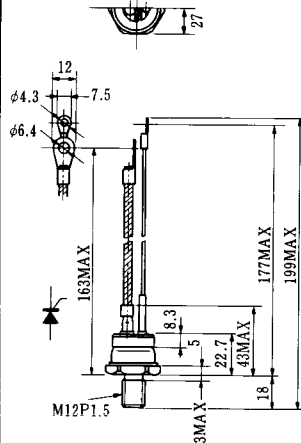
- ① アノード
- ② カソード
- ③ ゲート

# H-10



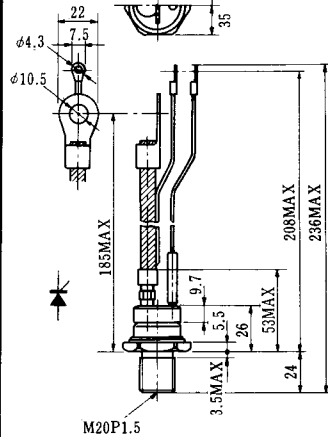
M12P1.5③

# H-11



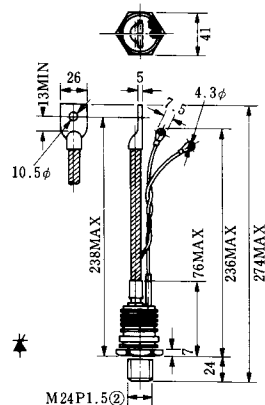
M12P1.5

# H-12



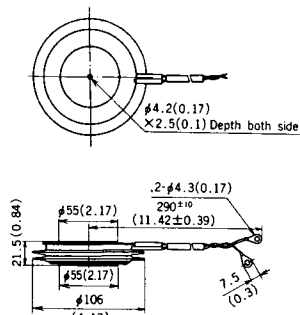
M20P1.5

# H-13



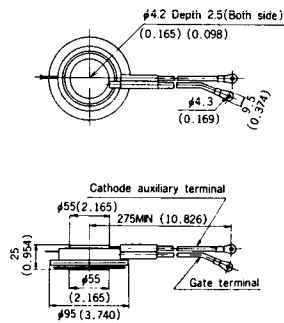
M24P1.5②

# H-14



Unit in mm (inch)

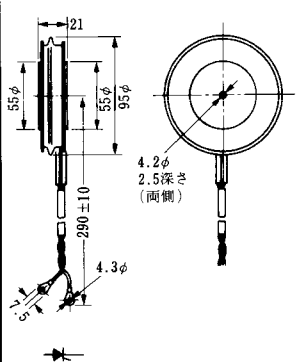
# H-15



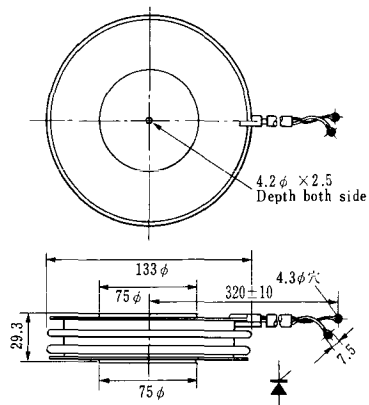
Cathode auxiliary terminal  
Gate terminal

Unit in mm (inch)

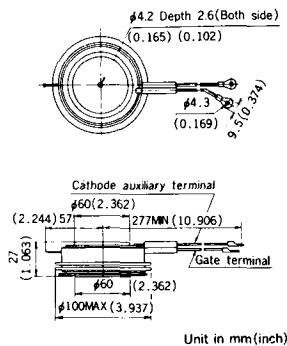
# H-16



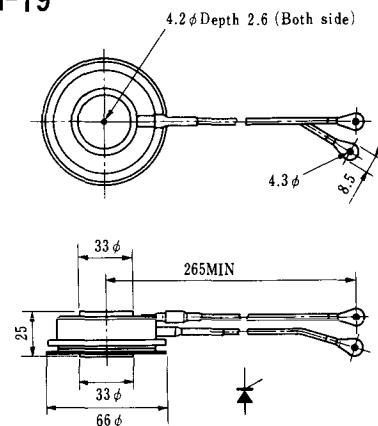
# H-17



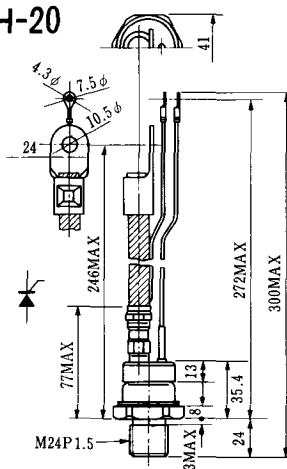
# H-18



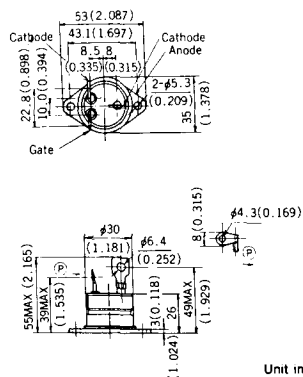
# H-19



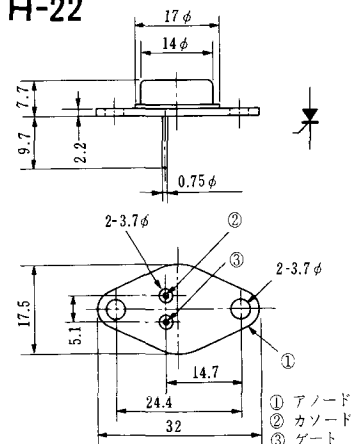
# H-20



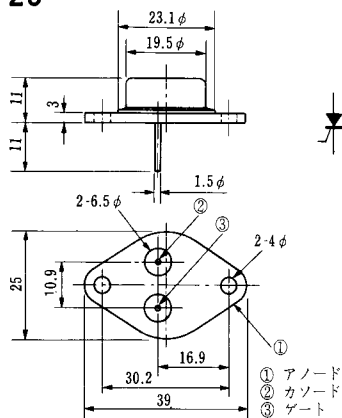
# H-21



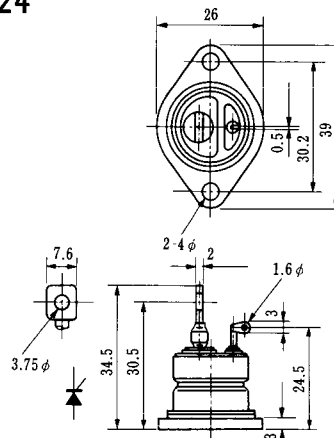
# H-22



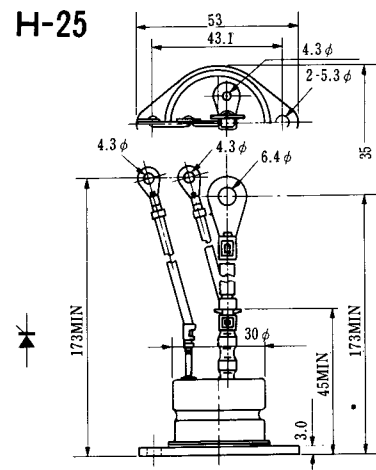
# H-23



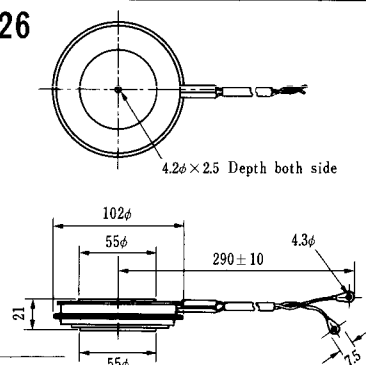
# H-24



# H-25

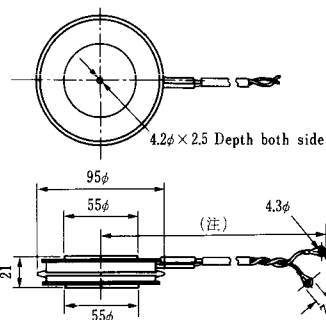


# H-26



Type	Direction of polarity
CA12	

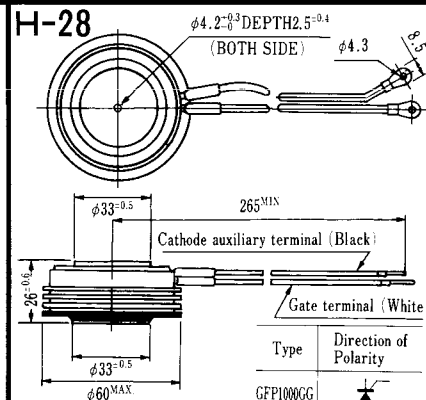
# H-27



Type	Direction of polarity
CF11V	

(注) CC11V: 400 ± 10  
CF11V: 250 ± 10

# H-28

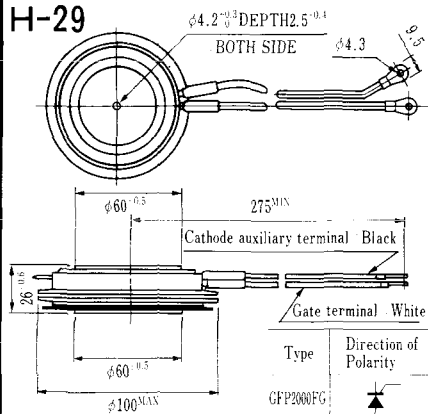


Type	Direction of Polarity
GFP100GG	

Weight: 360(g)

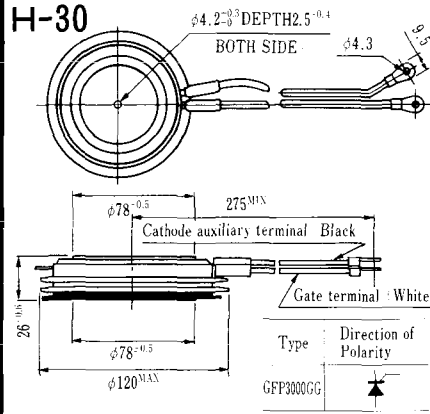
Note: The thickness is a dimension in press at the rated mounting force.

H-29



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

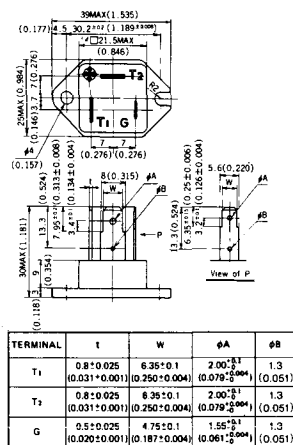
H-30



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

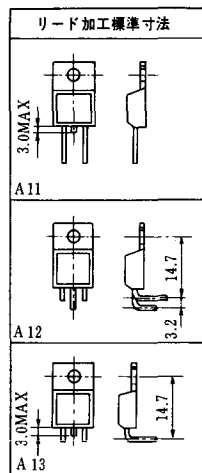
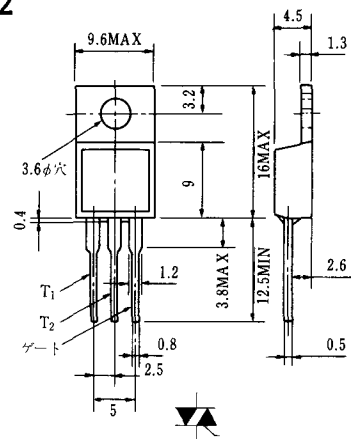


# HT-1

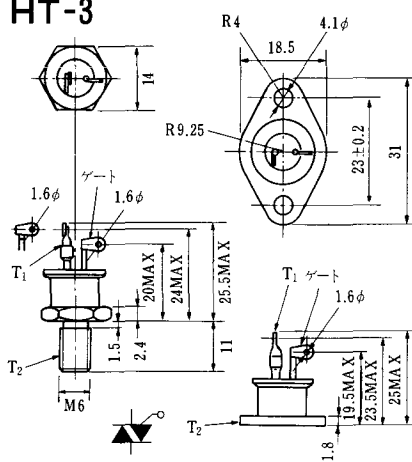


Unit in mm (inch)

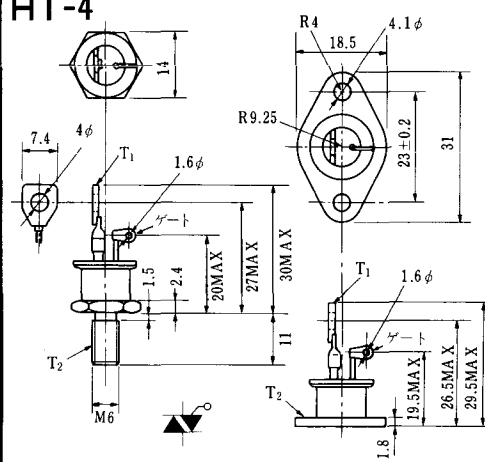
# HT-2



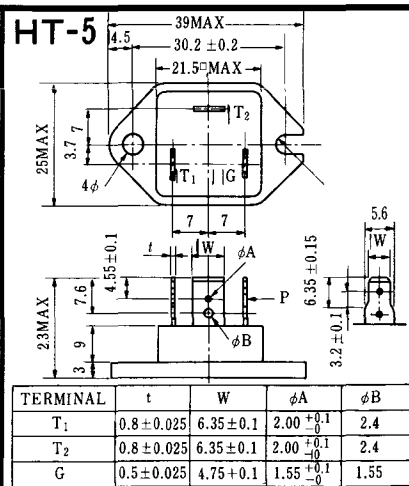
# HT-3



# HT-4

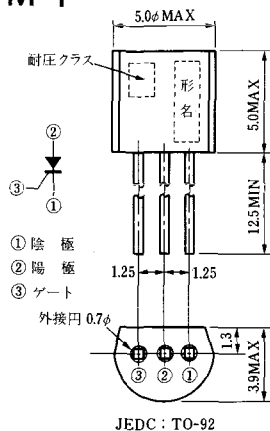


# HT-5

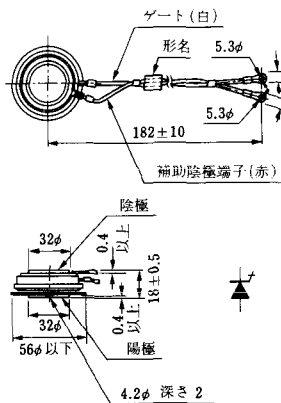


《寸法図単位：mm》

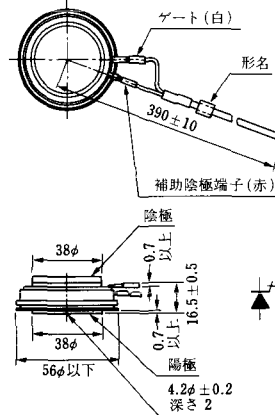
M-1



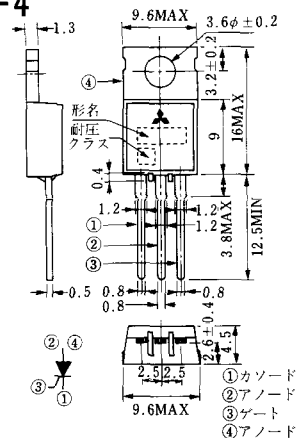
M-2



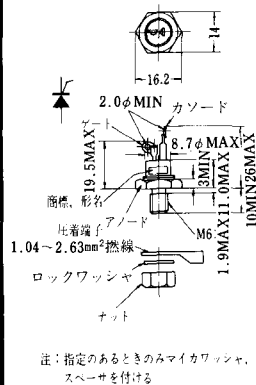
M-3



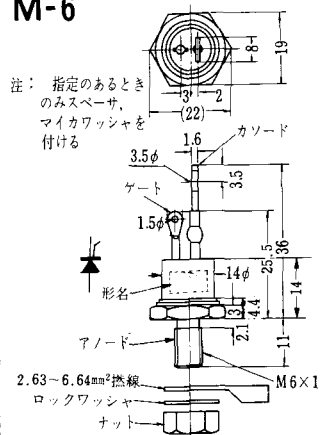
M-4



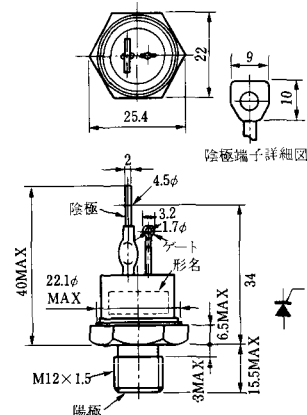
M-5



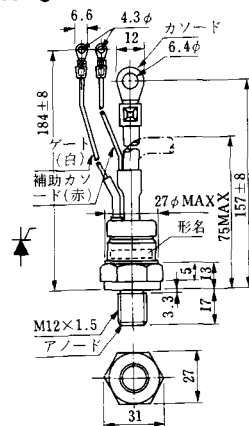
M-6



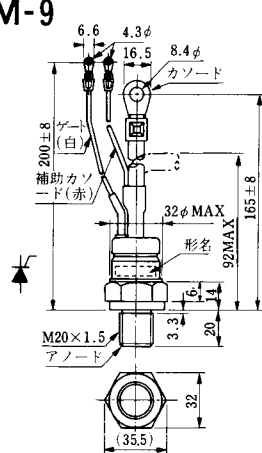
M-7



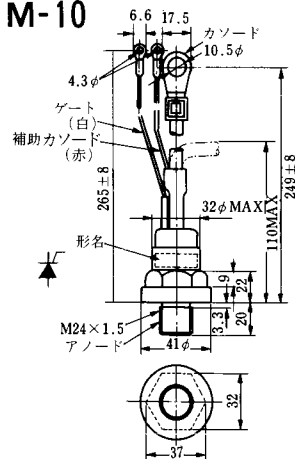
M-8



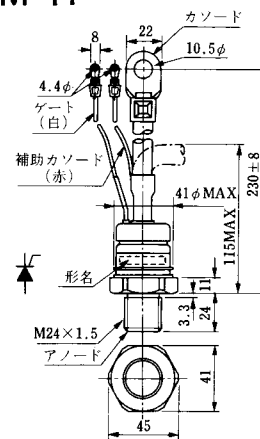
M-9



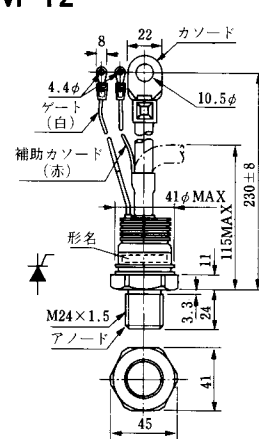
M-10



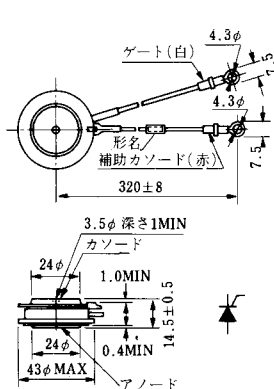
M-11



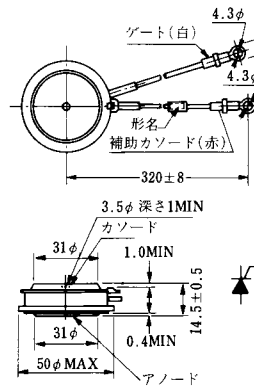
M-12



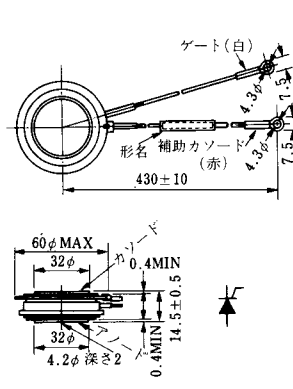
M-13



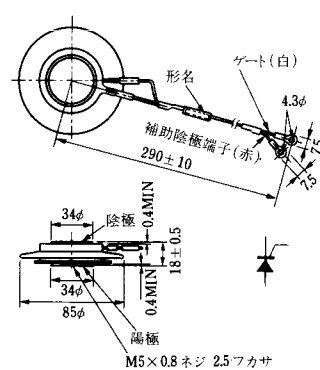
M-14



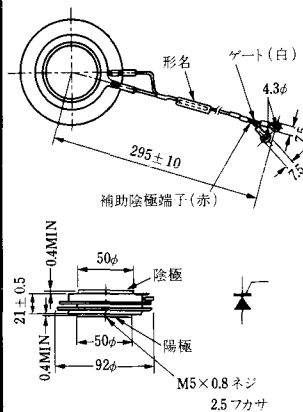
M-15



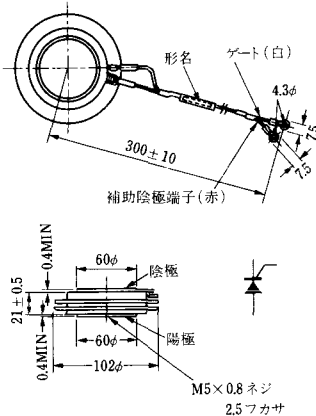
M-16



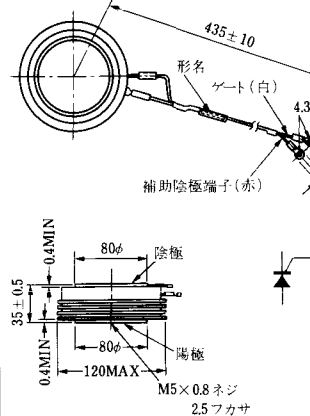
M-17



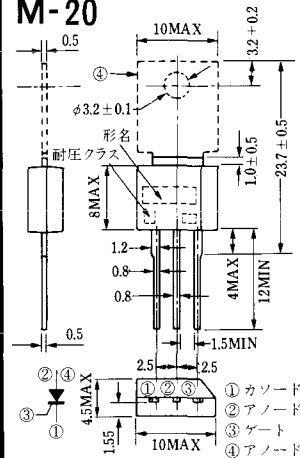
M-18



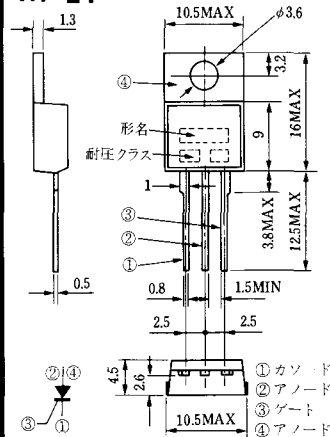
M-19



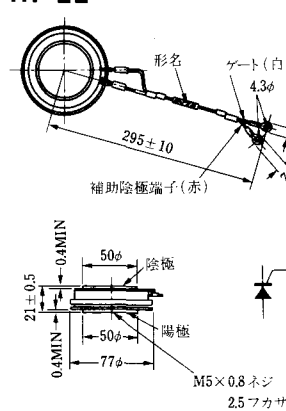
M-20



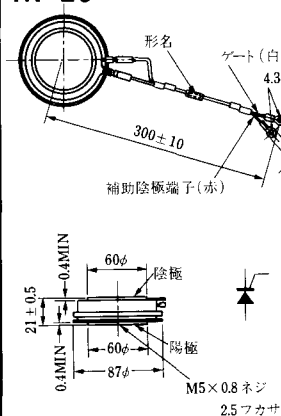
M-21



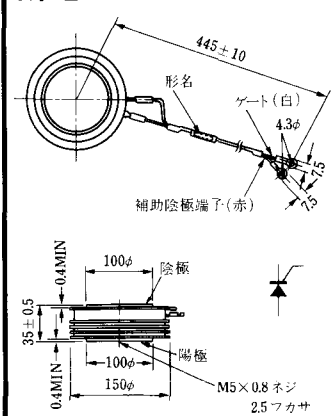
M-22



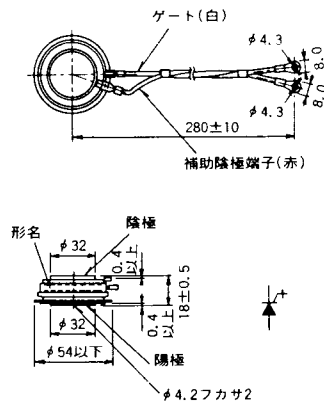
M-23



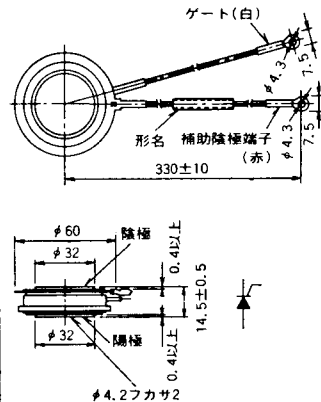
M-24



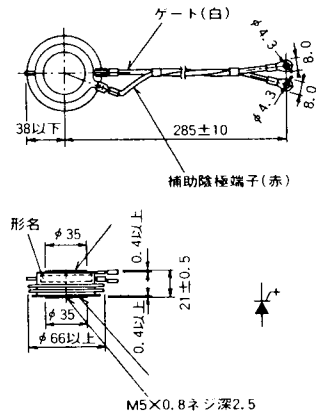
M-25



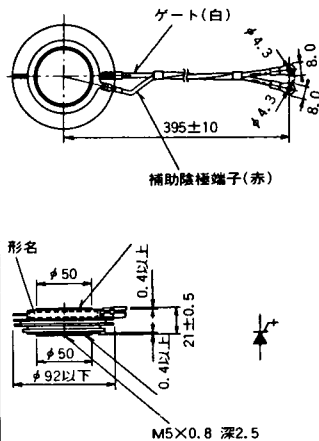
M-26



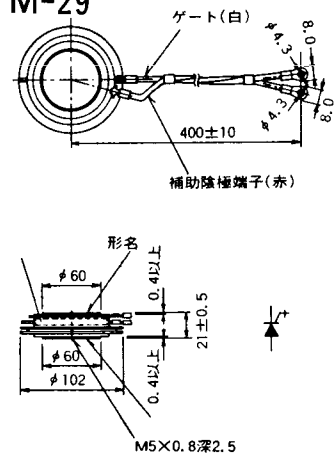
M-27



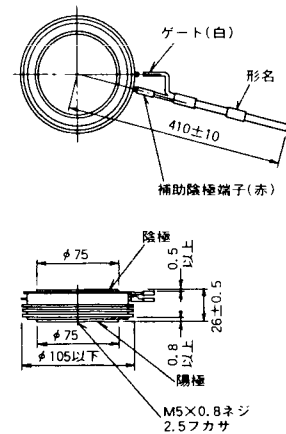
M-28



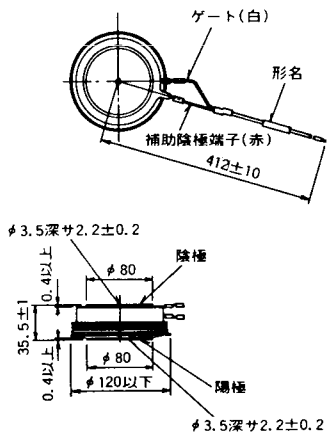
M-29



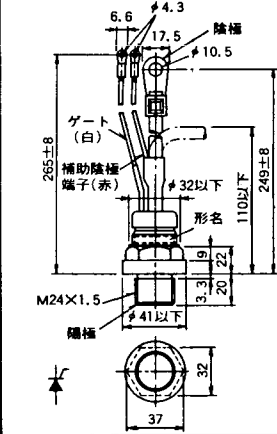
M-30



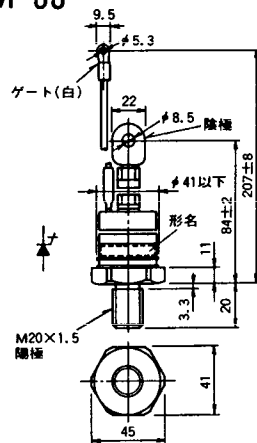
M-31



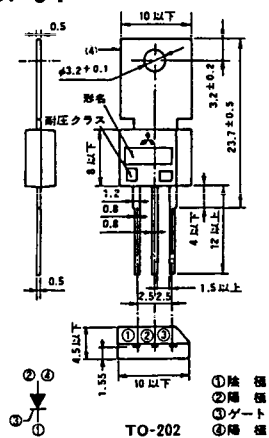
M-32



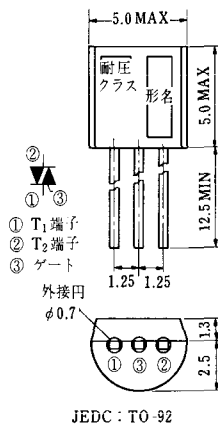
M-33



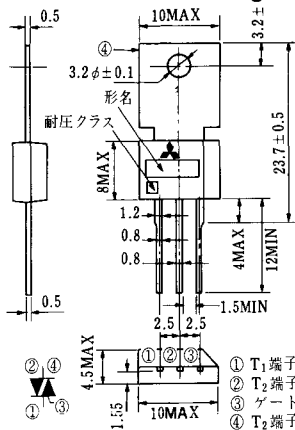
M-34



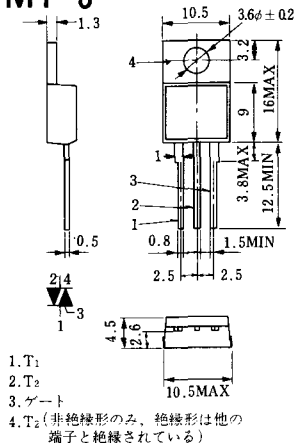
# MT-1



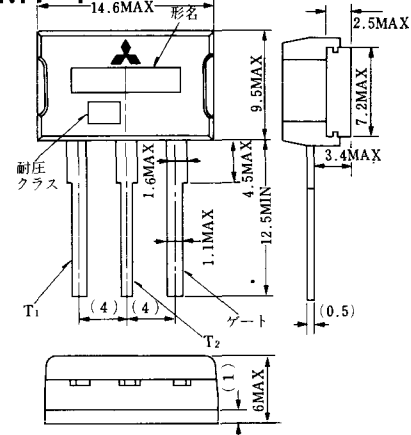
# MT-2



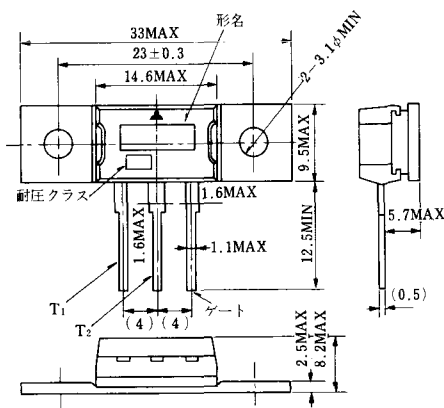
# MT-3



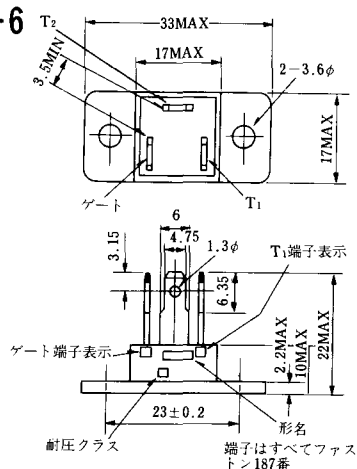
# MT-4



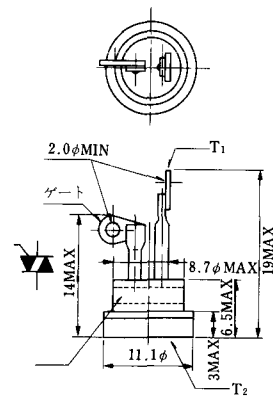
# MT-5



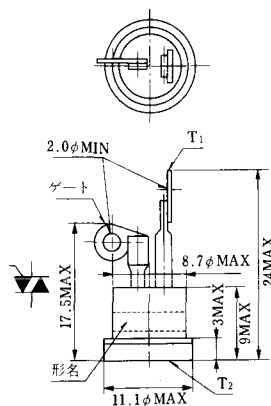
# MT-6



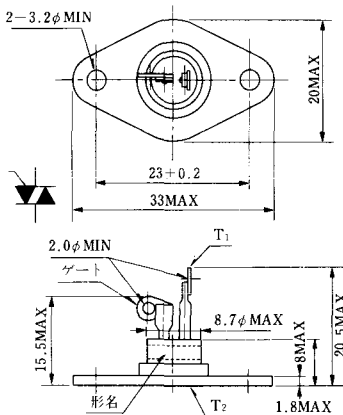
# MT-7



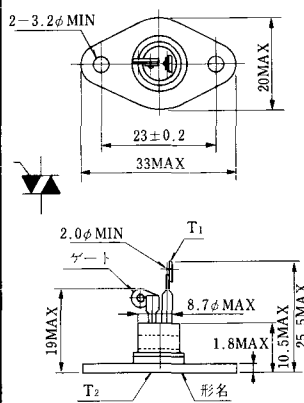
MT-8



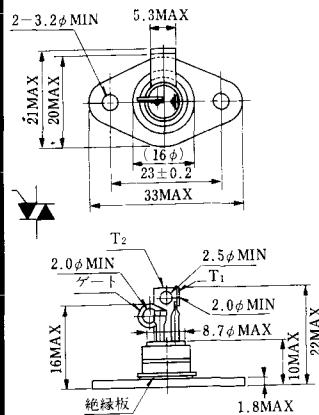
MT-9



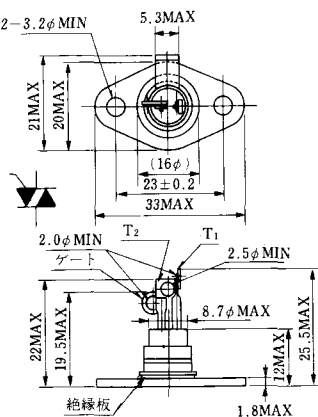
MT-10



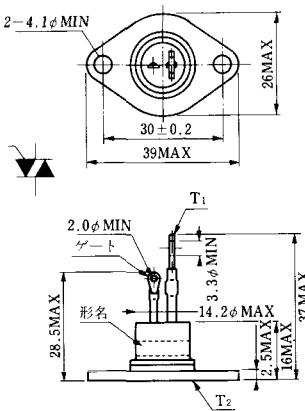
MT-11



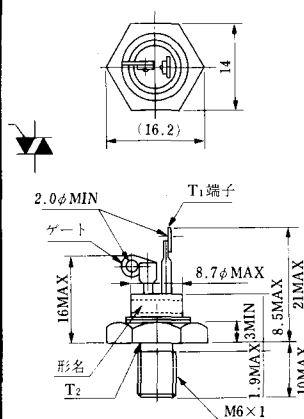
MT-12



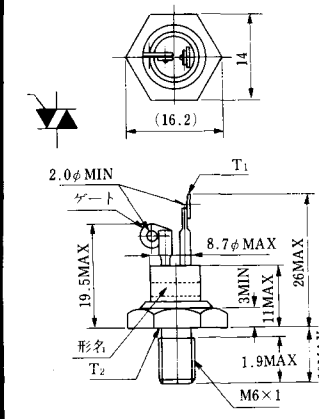
MT-13



MT-14

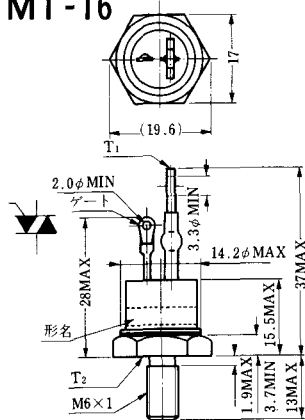


MT-15

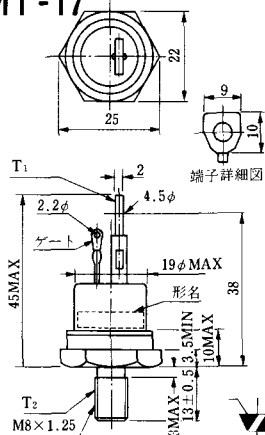




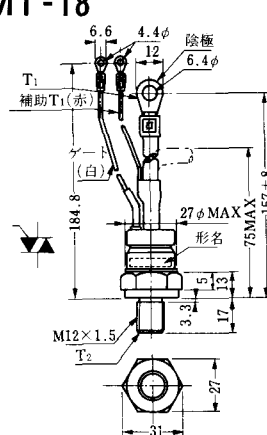
MT-16



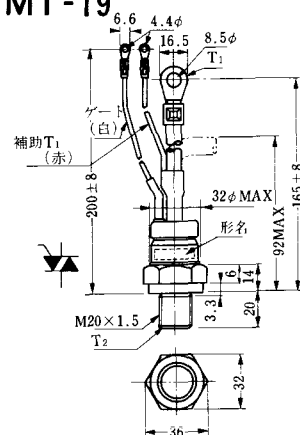
MT-17



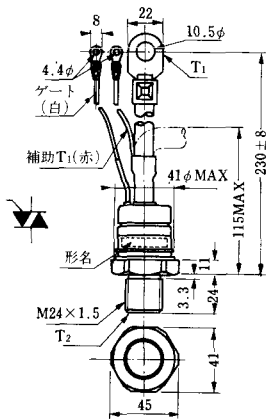
MT-18



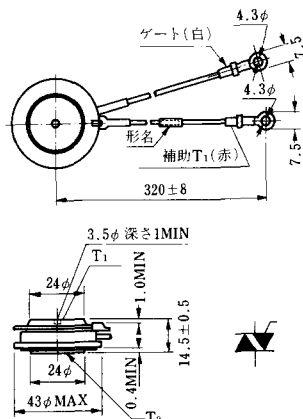
MT-19



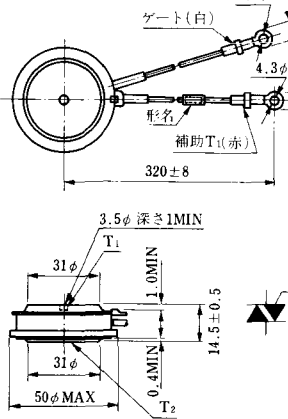
MT-20



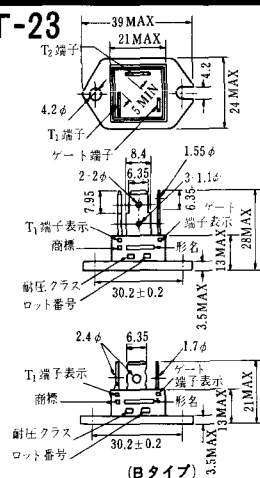
MT-21



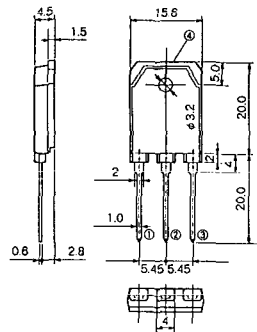
MT-22



MT-23



# MT-24

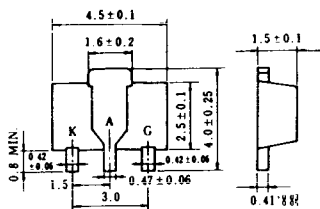


TO - 3P

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



N-9



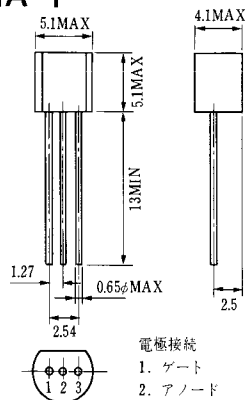
電極接続

K : カソード

A : アノード

G : ゲート

# NA-1

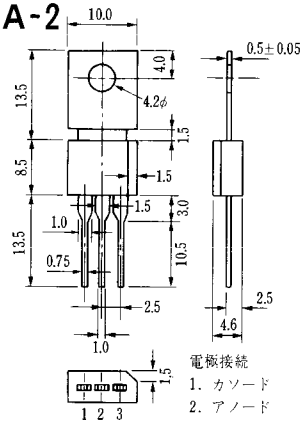


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

# NA-2

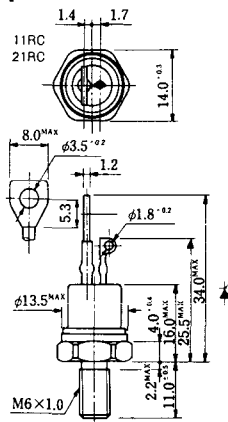


電極接続

1. カソード
2. アノード
3. ゲート

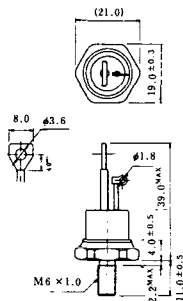
JEDEC: TO-202AA

## NI-1



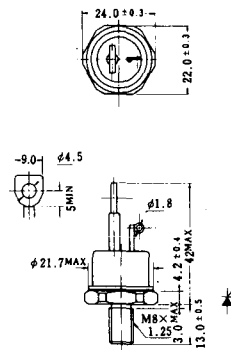
## NI-2

29RD



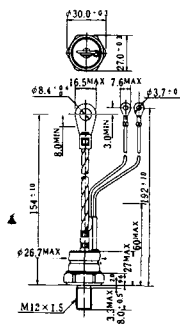
## NI-3

39RC  
59RC  
39RF  
59RF



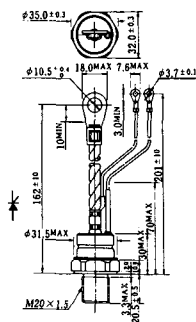
## NI-4

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



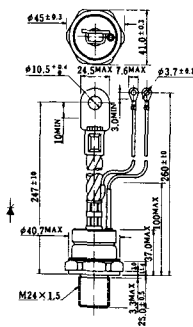
## NI-5

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



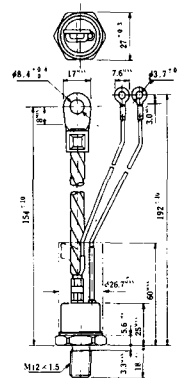
## NI-6

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



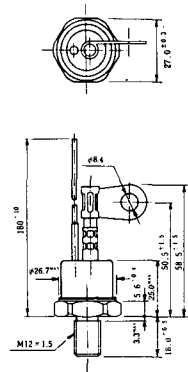
## NI-7

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



## NI-8

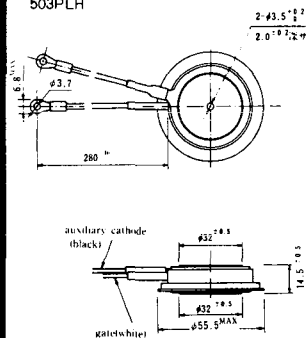
89RW  
129RW





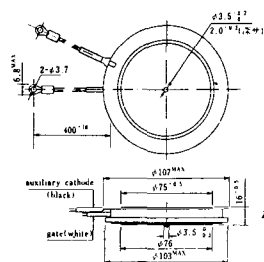
# NI-16

503PLF  
503PLH



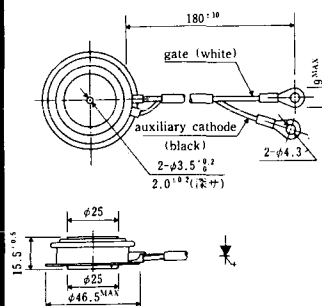
# NI-17

3003PA



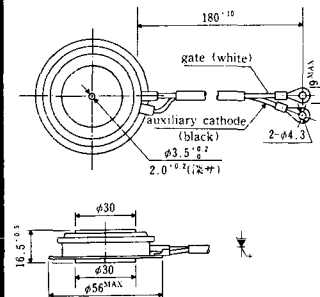
# NI-18

353PGA「E



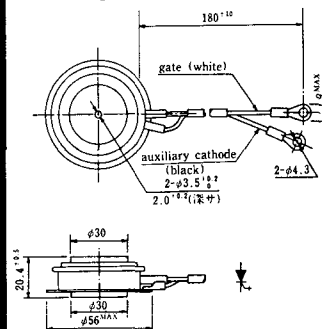
# NI-19

603PGA, 603PGA「A, 803PGA



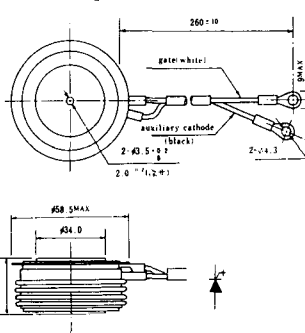
# NI-20

603PGA「E



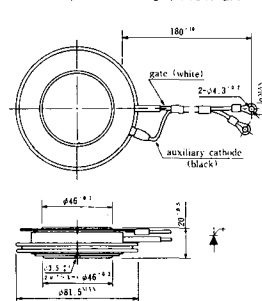
# NI-21

1001PGB「E



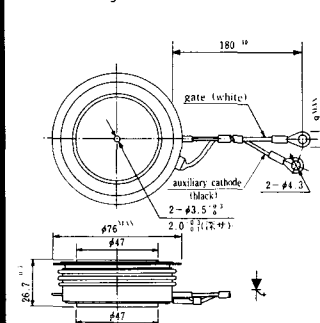
# NI-22

1201PGA, 1201PGA「A, 1401PGA



# NI-23

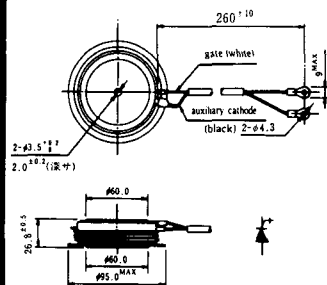
1201PGA「E





NI-24

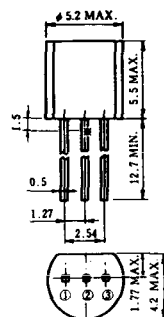
2001PGB<sup>®</sup> JE



NI-25

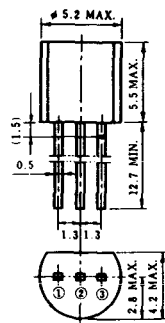
NI-26

# NT-1



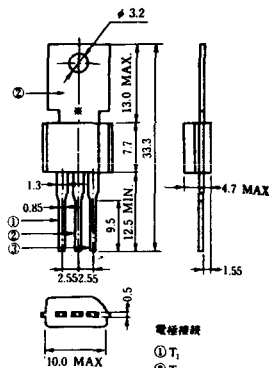
電線接続  
① T<sub>1</sub>  
② ゲート  
③ T<sub>2</sub>

# NT-2



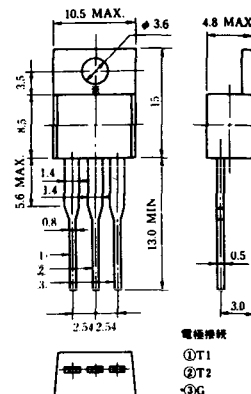
電線接続  
① T<sub>1</sub>  
② ゲート  
③ T<sub>2</sub>

# NT-3



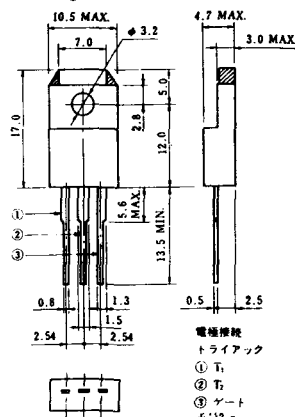
電線接続  
① T<sub>1</sub>  
② T<sub>2</sub>  
③ ゲート

# NT-4



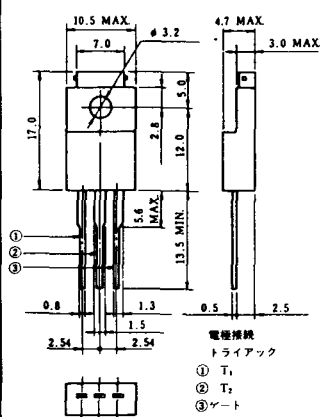
電線接続  
① T<sub>1</sub>  
② T<sub>2</sub>  
③ G

# NT-5



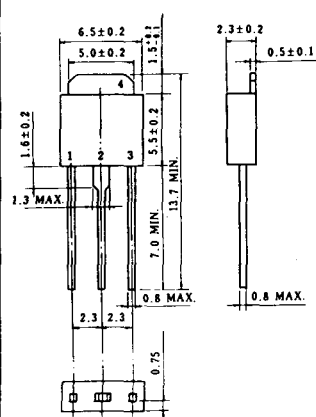
電線接続  
トリアック  
① T<sub>1</sub>  
② T<sub>2</sub>  
③ ゲート  
④ 2K

# NT-6

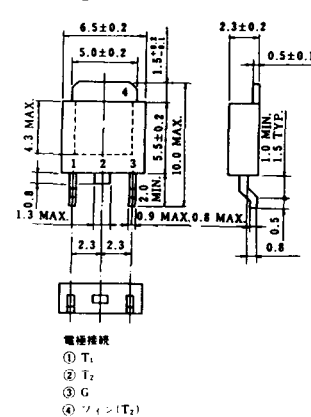


電線接続  
トリアック  
① T<sub>1</sub>  
② T<sub>2</sub>  
③ ゲート  
④ 2K

# NT-7



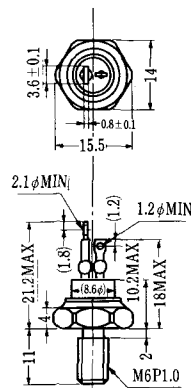
# NT-8



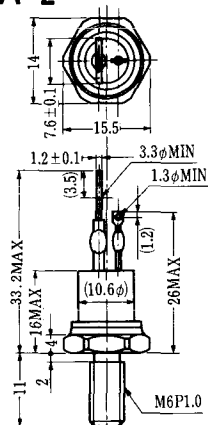
電線接続  
① T<sub>1</sub>  
② T<sub>2</sub>  
③ G  
④ T<sub>1</sub> (T<sub>2</sub>)



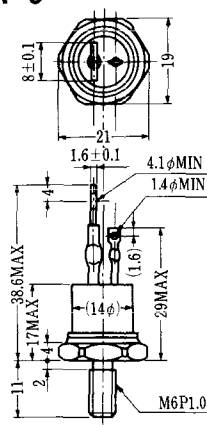
SA-1



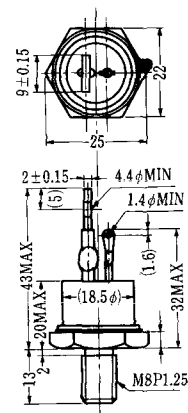
SA-2



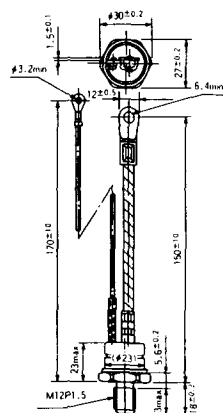
SA-3



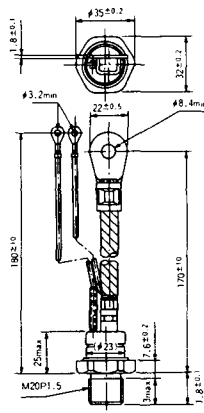
SA-4



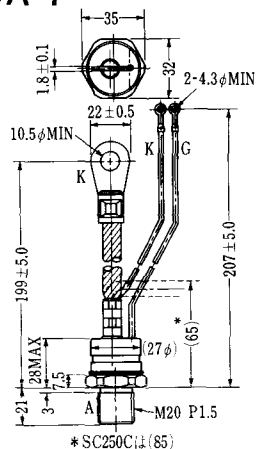
SA-5



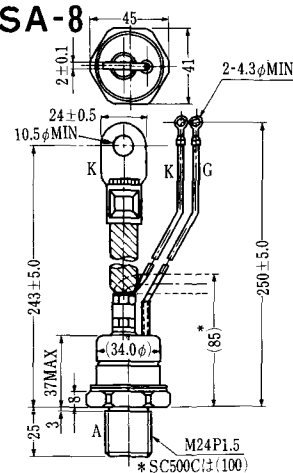
SA-6



SA-7

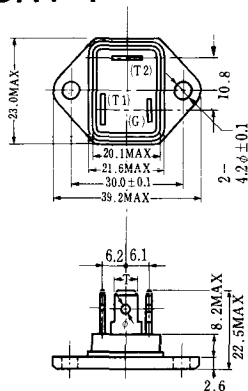


SA-8



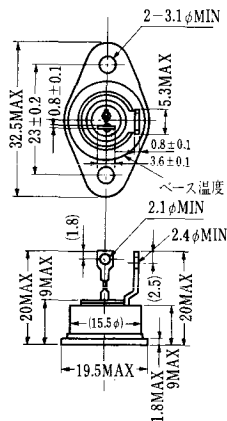


# SAT-1

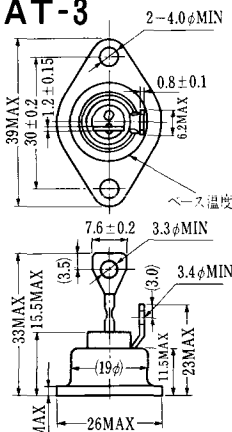


T1端子:ファストン250( $T=6.35$ ,  $t=0.8$ ,  $\phi=1.65$ )  
T2端子:ファストン250( $T=6.35$ ,  $t=0.8$ ,  $\phi=1.65$ )  
G端子:ファストン187( $T=4.75$ ,  $t=0.5$ ,  $\phi=1.3$ )

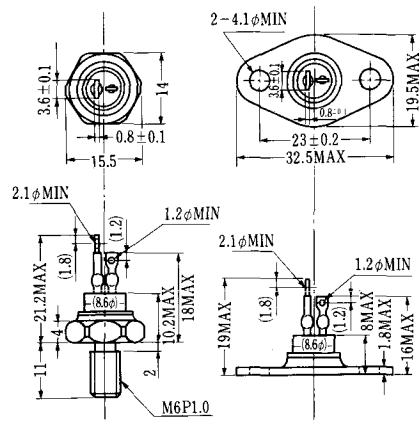
**SAT-2**



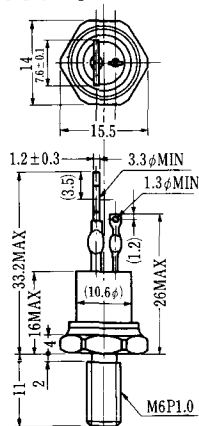
**SAT-3**



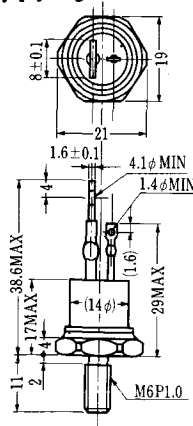
SAT-4



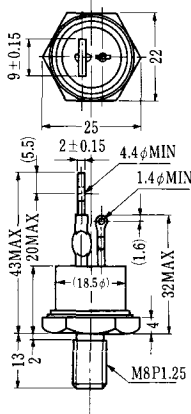
**SAT-5**



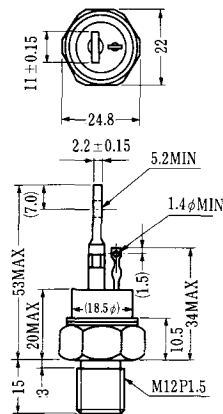
SAT-6



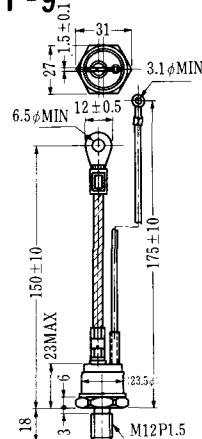
SAT-7



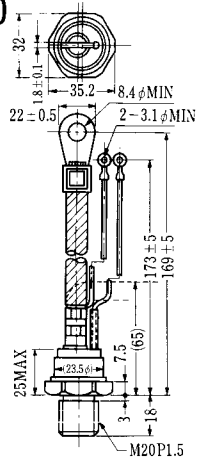
SAT-8



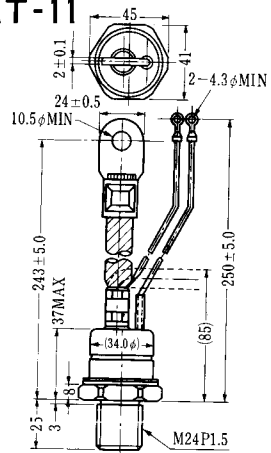
SAT-9.



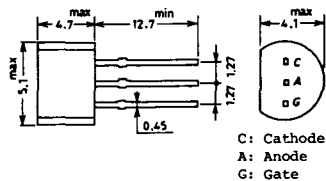
**SAT-10**



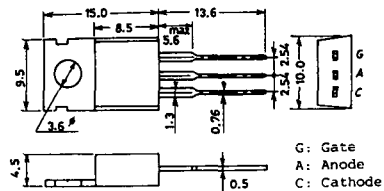
**SAT-11**



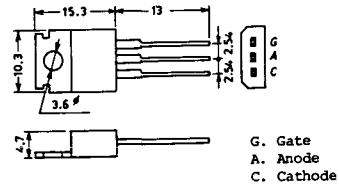
**SY-1**(1096A)



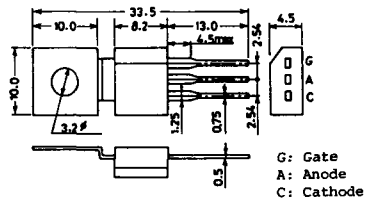
**SY-2**(1151)



**SY-3**(1104)

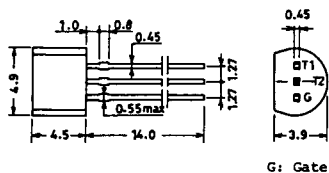


**SY-4**(1150)



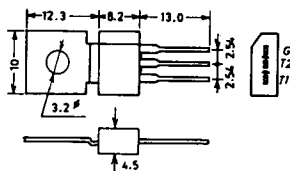


1097A

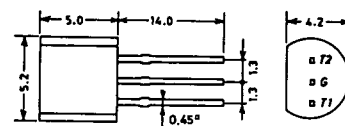


G: Gate

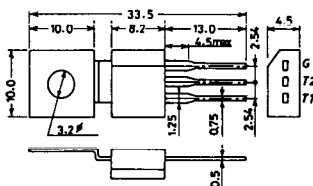
1102



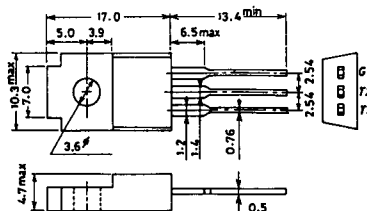
1141



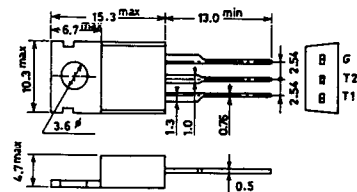
1142



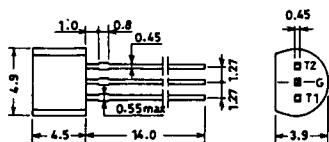
1144



1155



1192A

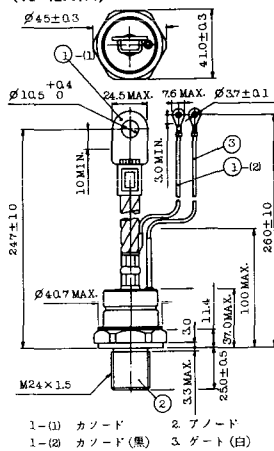


G: Gate

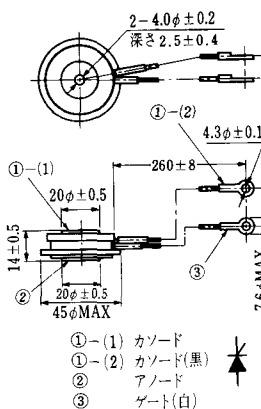




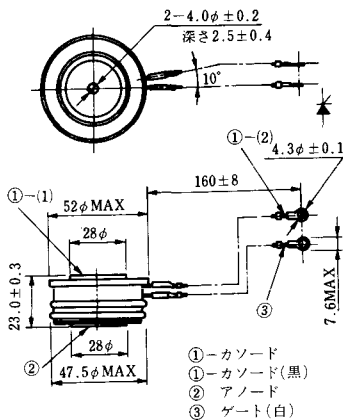
T-17 (13-42A1A)



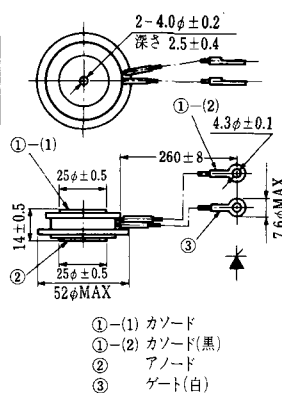
T-18 (13-45D1A)



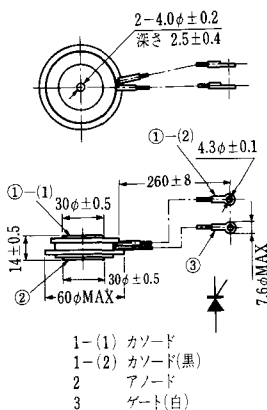
T-19 (13-52B1A)



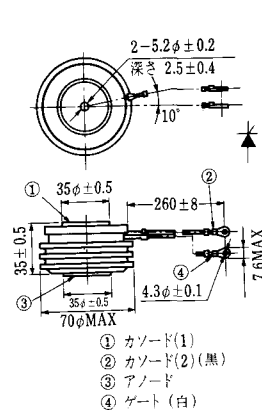
T-20 (13-52C1A)



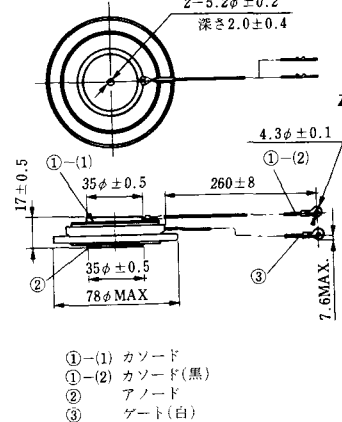
T-21 (13-60A1A)



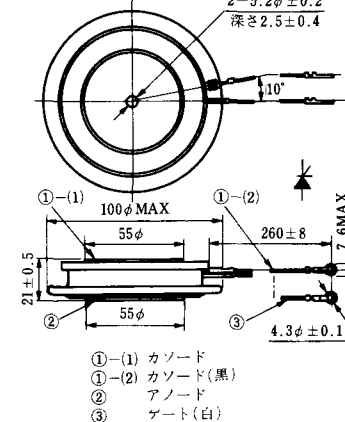
T-22 (13-70C1A)



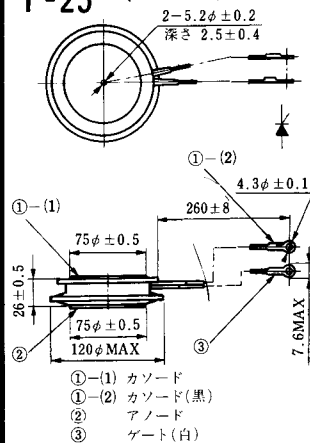
T-23 (13-78A1A)



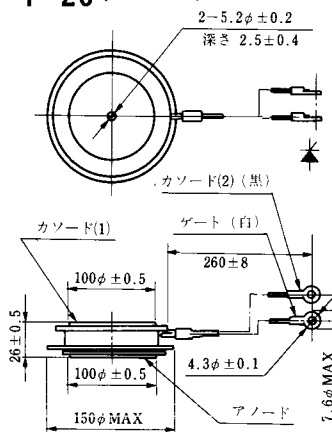
T-24 (13-100C1A)



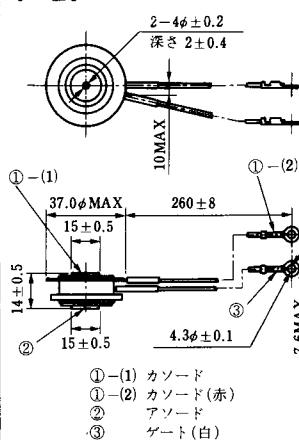
**T-25** (13-120A2A)



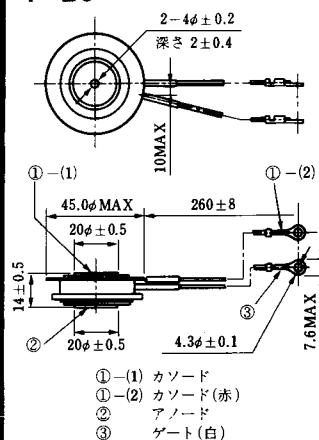
**T-26** (13-150A1A)



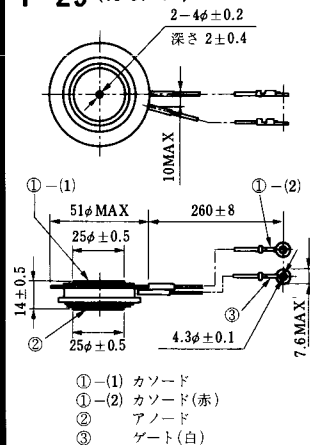
**T-27** (13-37A1A)



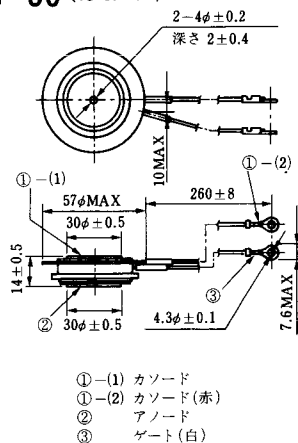
**T-28** (13-45E1A)



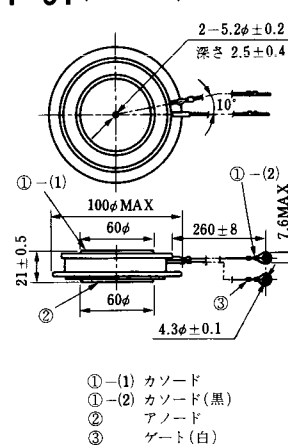
**T-29** (13-51A1A)



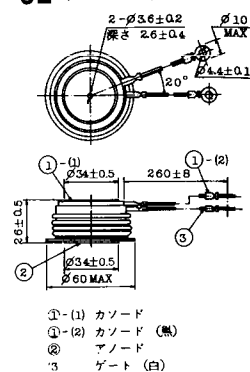
**T-30** (13-57A1A)



**T-31** (13-100E1A)

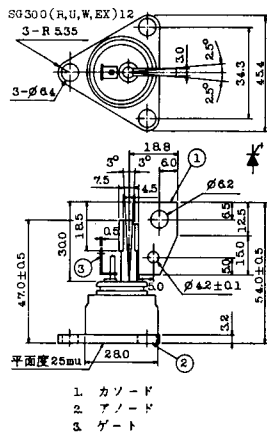


**T-32** (13-60E3A)

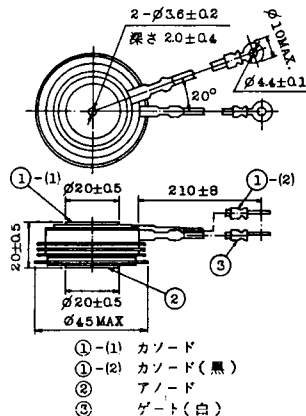




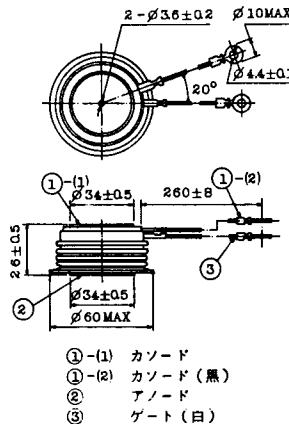
# T-41 (13-28A2A)



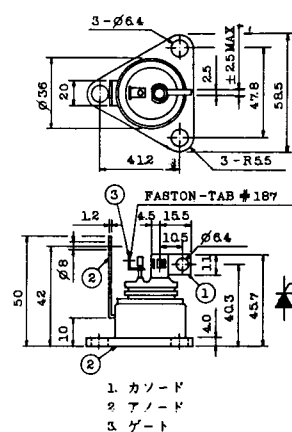
# T-42 (13-45F1A)



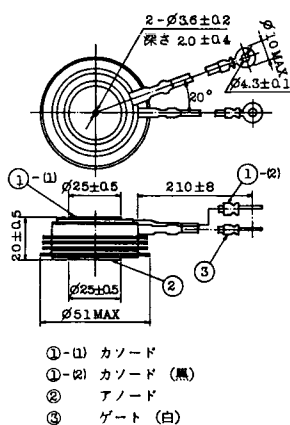
# T-43 (13-60E2A)



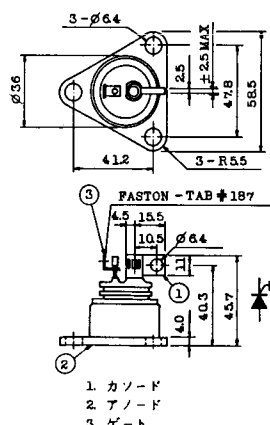
# T-44 (13-36A1A)



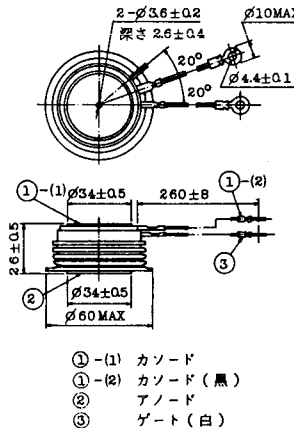
# T-45 (13-51B1A)



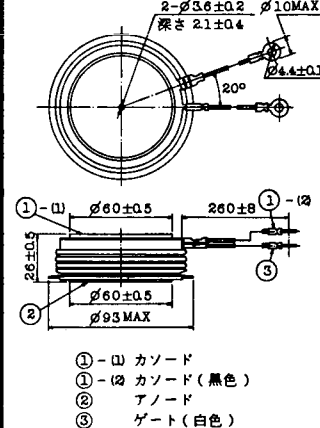
# T-46 (13-36B1A)



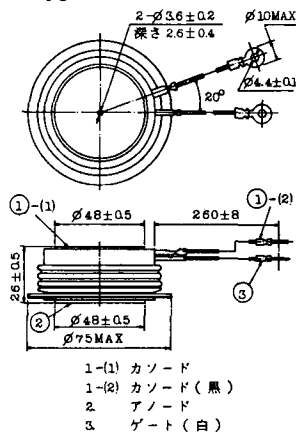
# T-47 (13-60E1A)



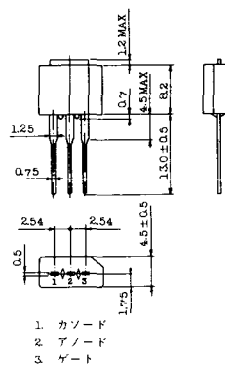
# T-48 (13-93C1A)



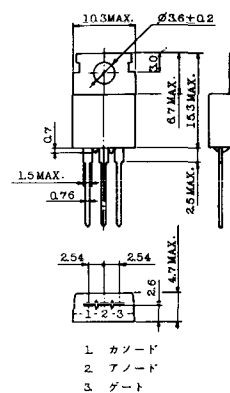
T-49 (13-75A1A)



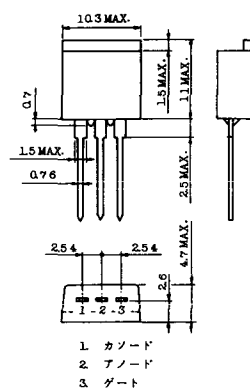
T-50 (13-10A3A)



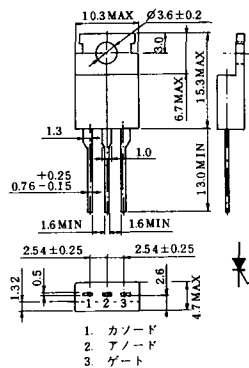
T-51 (13-10D1A)



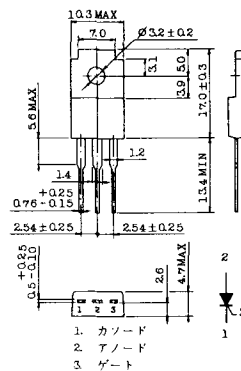
T-52 (13-10D2A)



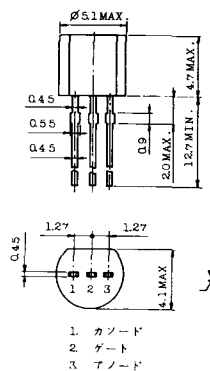
T-53 (13-10E1B)



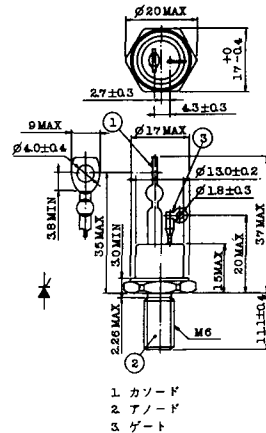
T-54 (13-10F1B)



T-55 (13-5A1D)



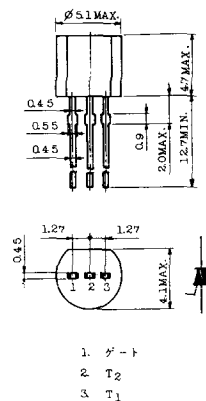
T-56 (13-13C1A)



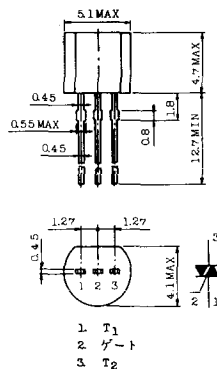




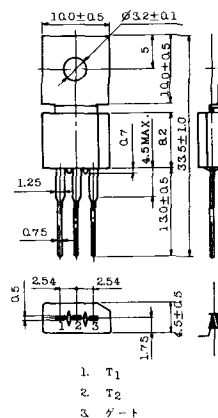
TT-1



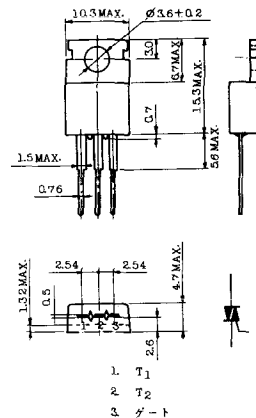
TT-2



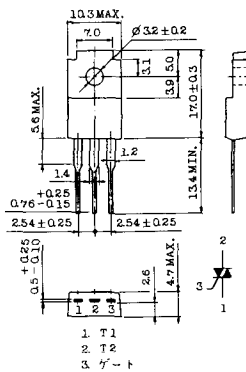
TT-3



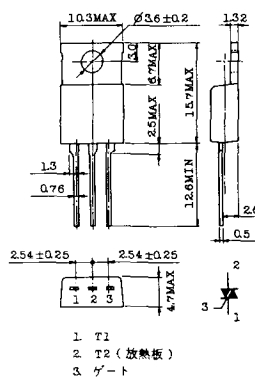
TT-4



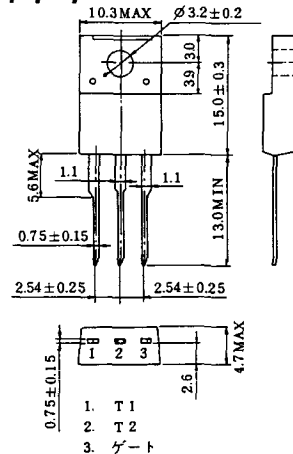
TT-5



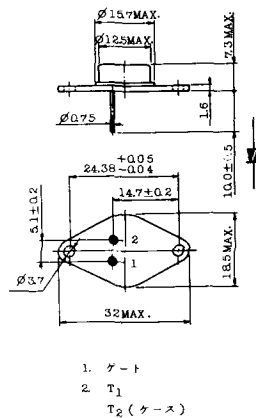
TT-6



TT-7

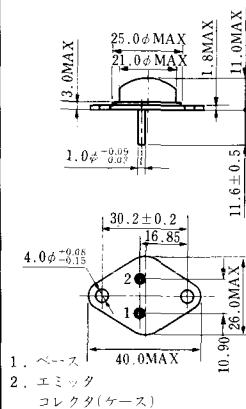


TT-8

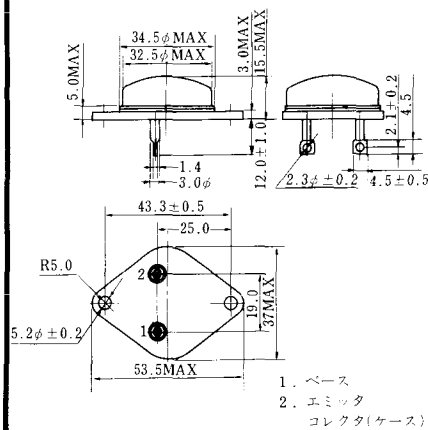




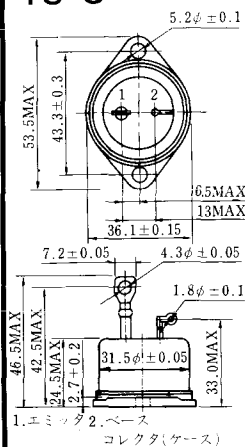
TS - 1



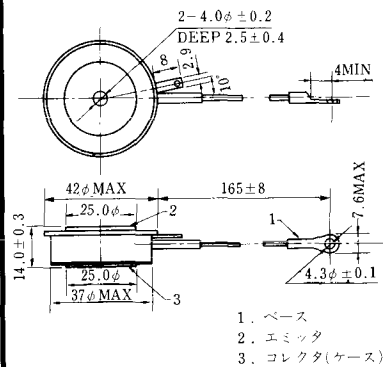
TS - 2



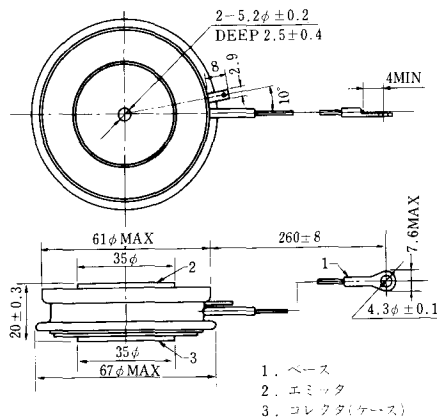
TS-3



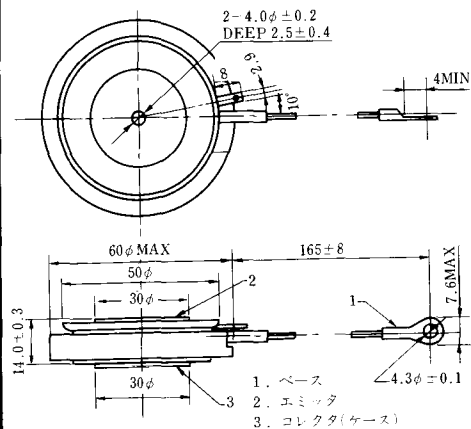
TS-4



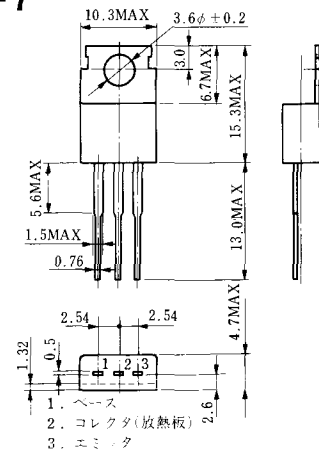
TS-5



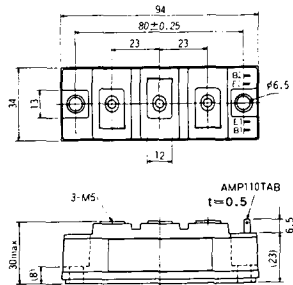
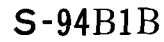
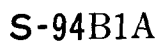
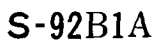
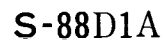
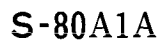
TS-6



TS-7

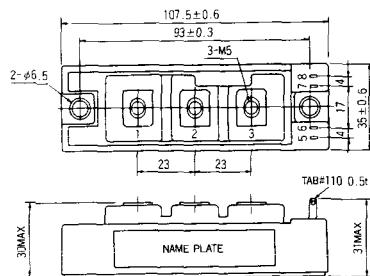




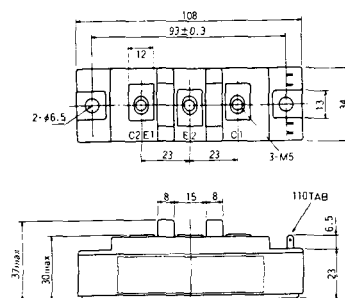




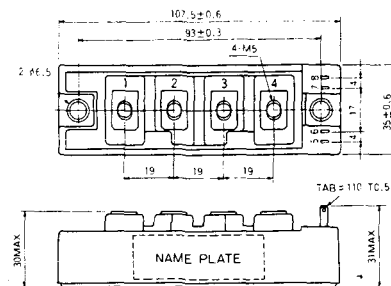
S-108B1A



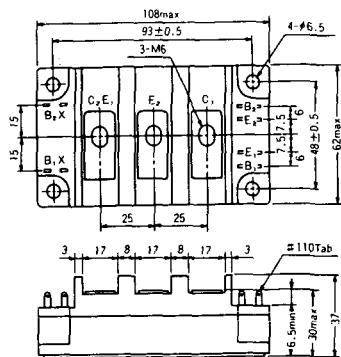
S-108B1B



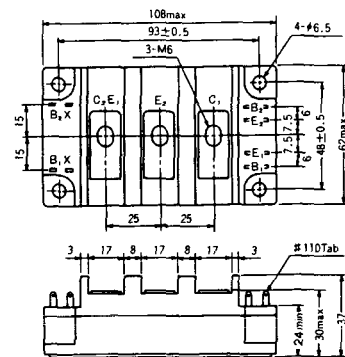
S-108B1C



S-108B2A

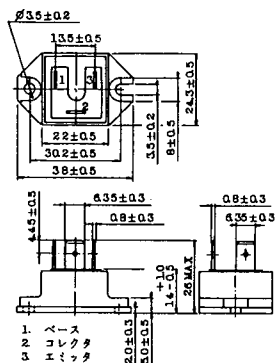


S-108B2B

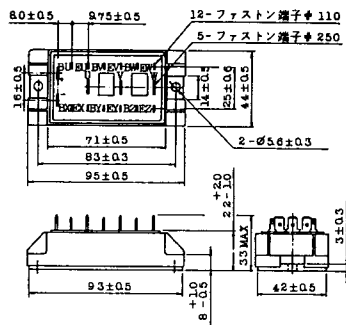




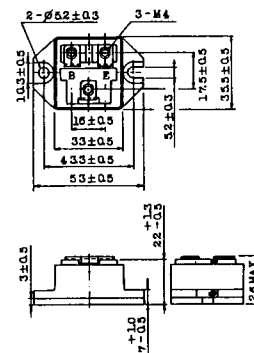
2-22B1A



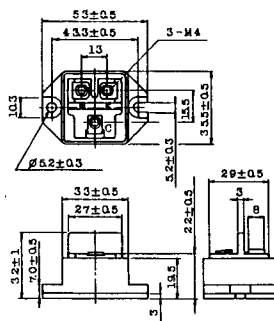
2-27A4A



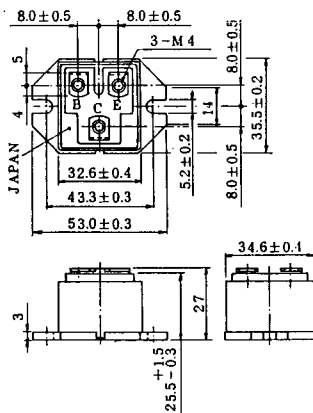
2-33C1A



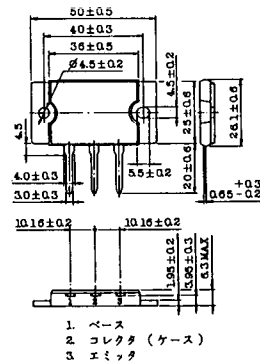
2-33D1A



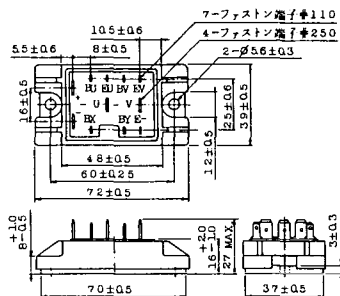
2-33F1A



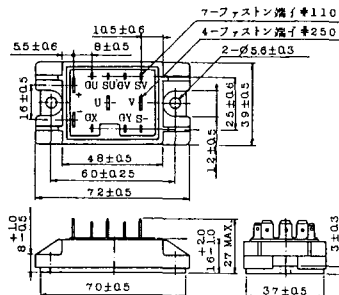
2-37A1A



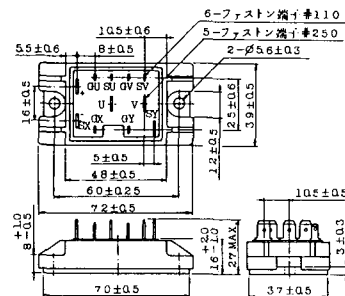
2-48A3A



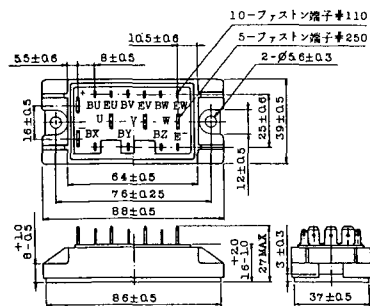
2-48A3B



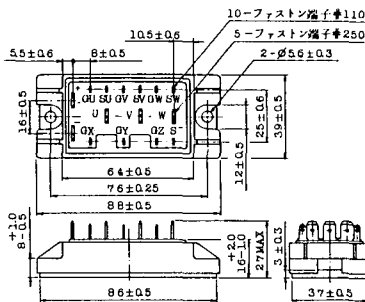
2-48A4A



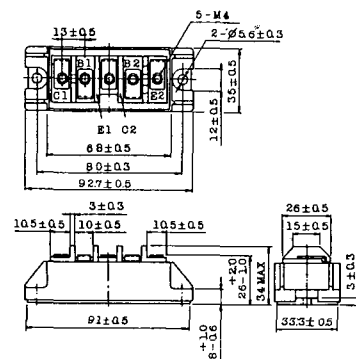
2-64A2A



2-64A2B



2-68A2A

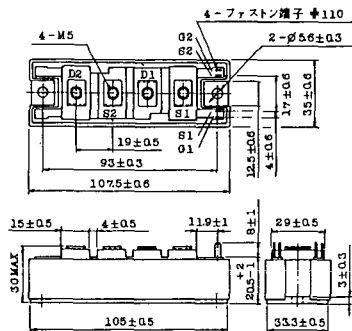




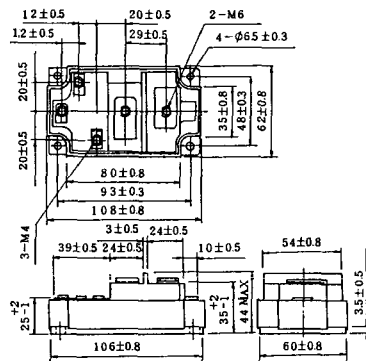




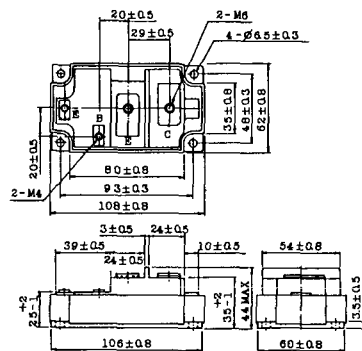
## 2-108B1A



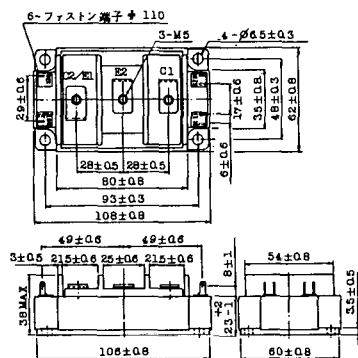
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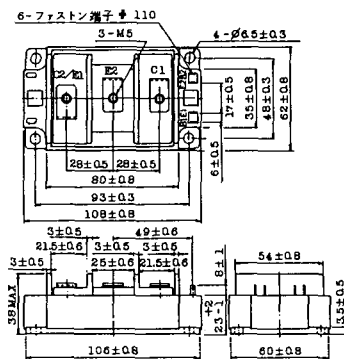
## 2-109A4A



## 2-109B3A

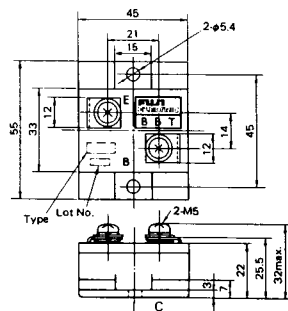


## 2-109B4A



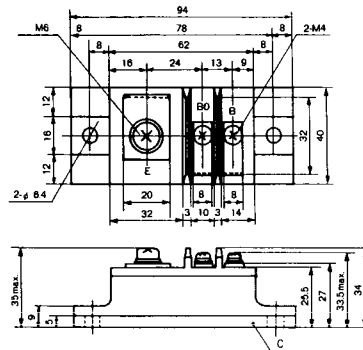
# BBT-II

BBTII  
1D200A-020



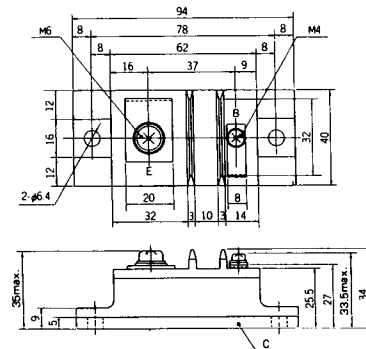
# BBT-III

BBTIII  
ETN31-055  
ETM36-030  
ETN36-030  
ETN35-030



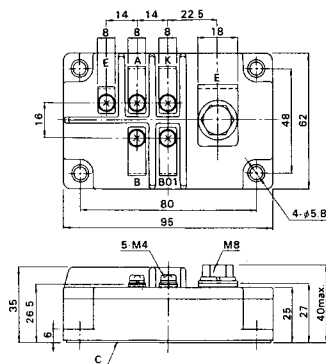
# BBT-III

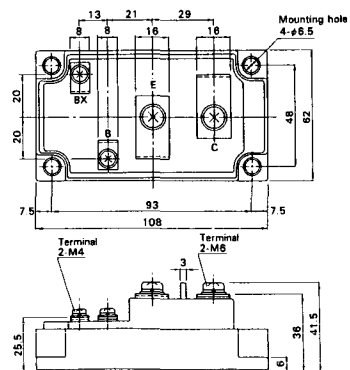
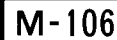
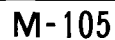
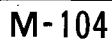
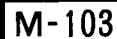
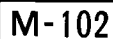
BBTIII  
ETN01-055  
ET1257



# BBT-IV

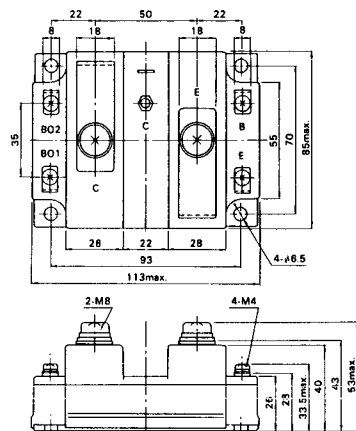
BBTIV  
1D500A-030



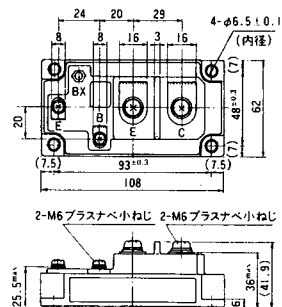




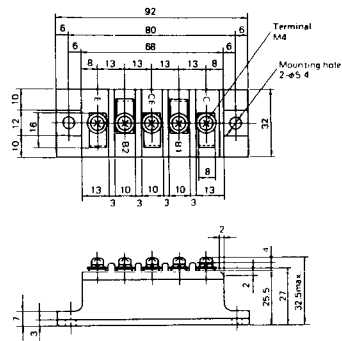
# M-107



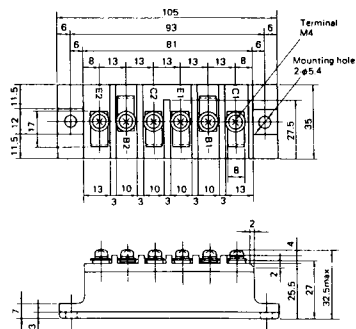
# M-116



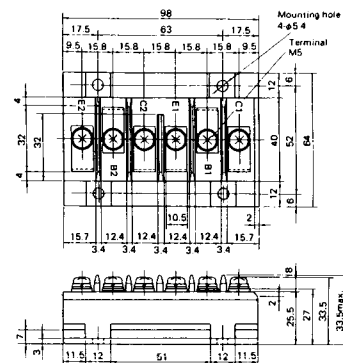
M-201



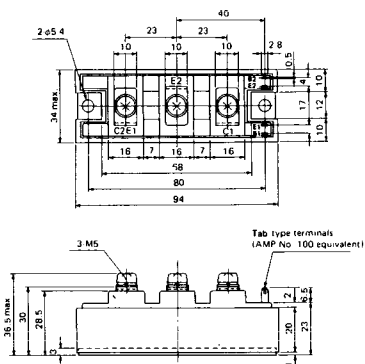
M-202



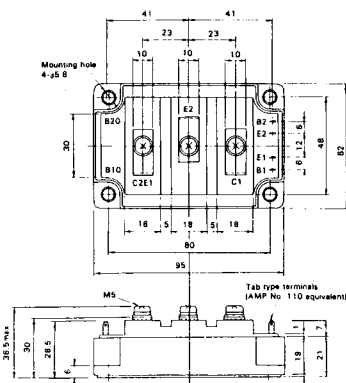
M-203



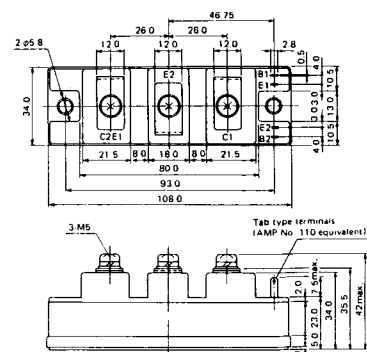
M-204



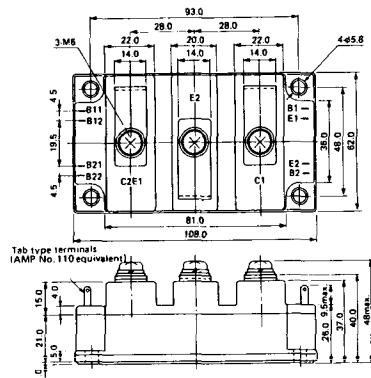
M-205



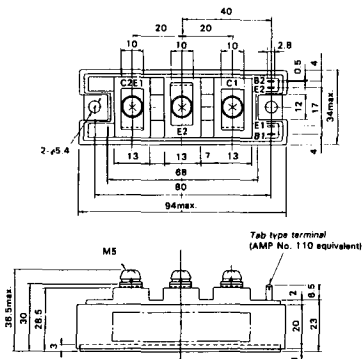
M-206



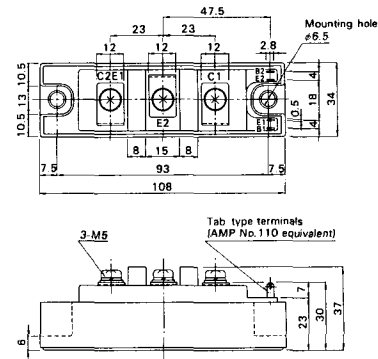
M-207



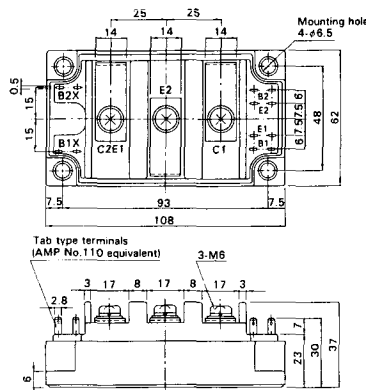
M-208



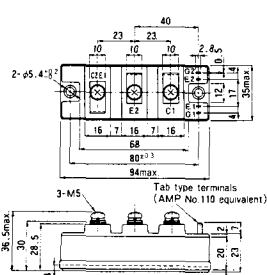
M-209



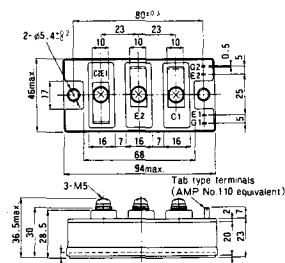
M-210

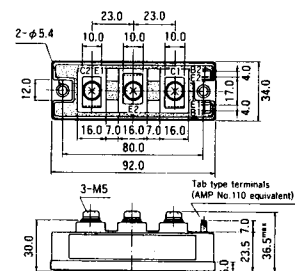
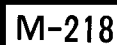
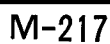
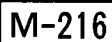
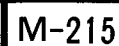
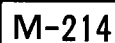


M-211

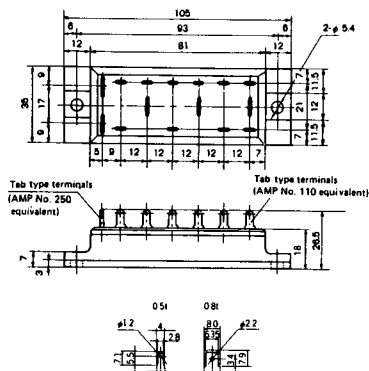
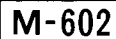


M-212

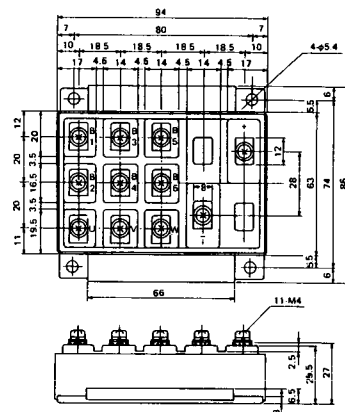




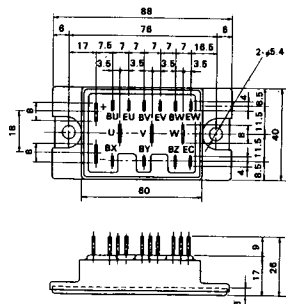




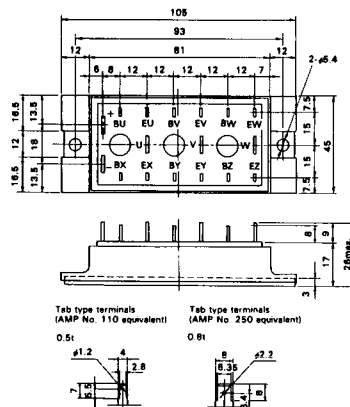
**M-603**



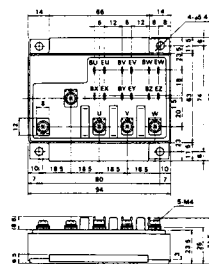
**M-604**



**M-605**



**M-606**

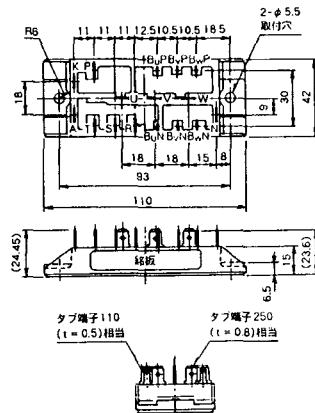




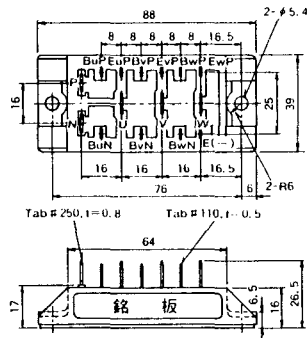




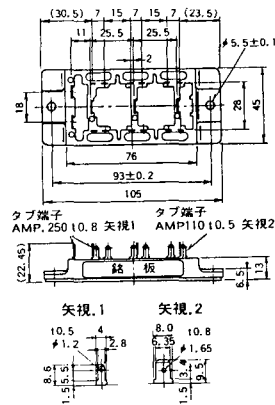
# M-2E6A



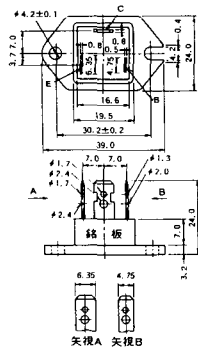
# M-2F6A



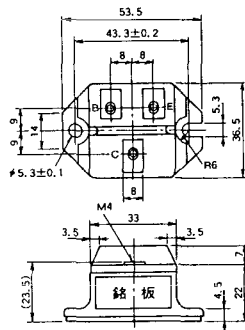
# M-2G6A



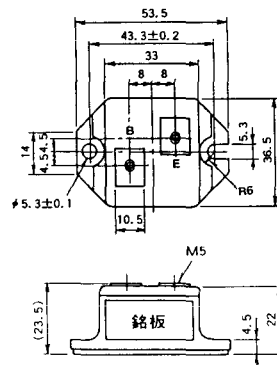
# M-3A1A



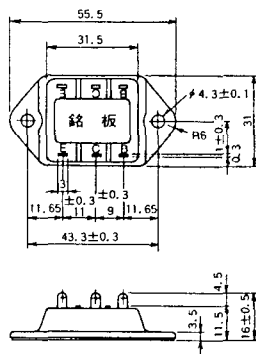
# M-3B1A



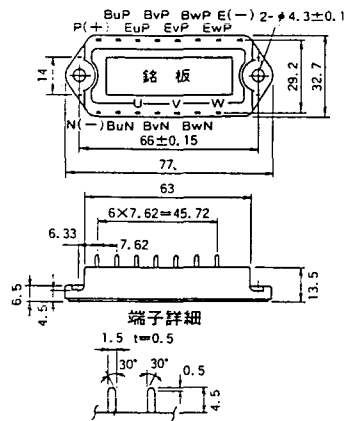
# M-3B1B



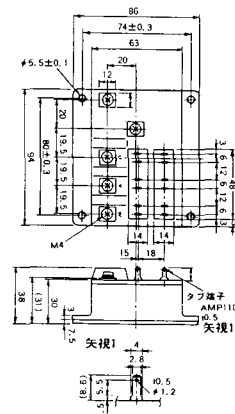
M-3C1A



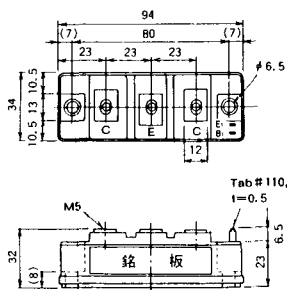
M-3D6A



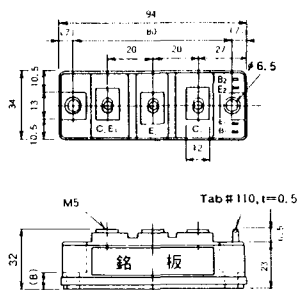
M-3E6A



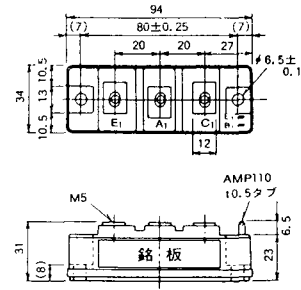
M-4A1A



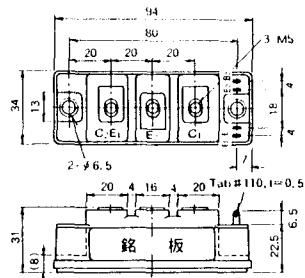
M-4A2A



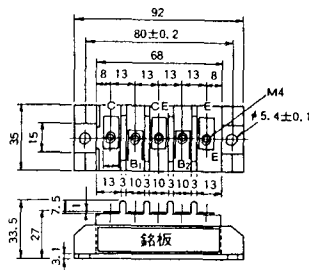
M-4A1B



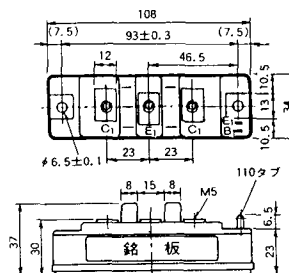
M-4A2B



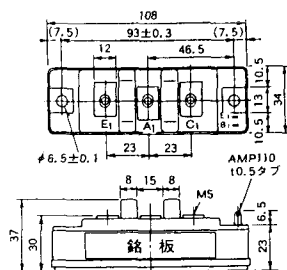
M-4B2A



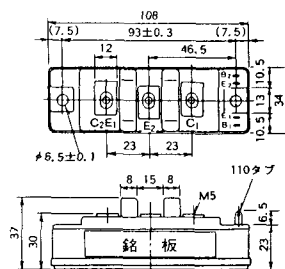
M-5A1A



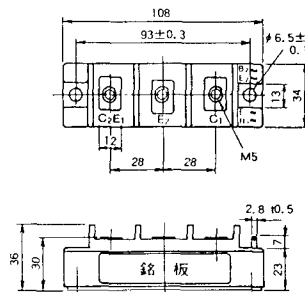
M-5A1B



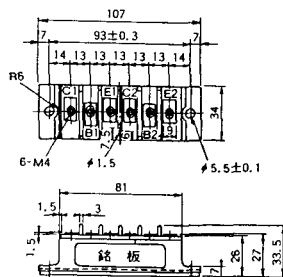
M-5A2A



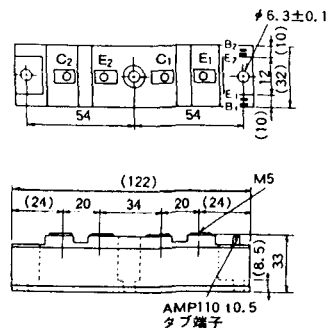
M-5B2A



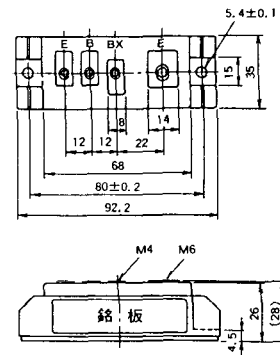
M-5C2A



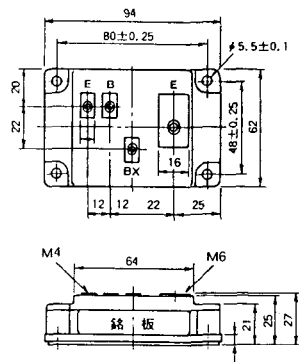
M-5D2A



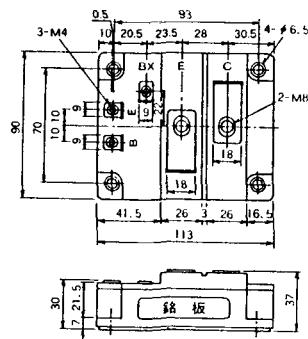
M-6A1A



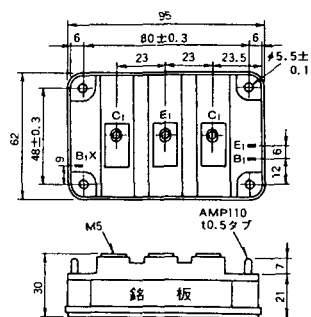
M-7A1A



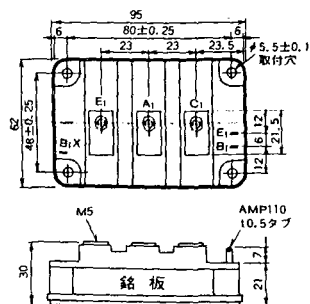
M-7B1A



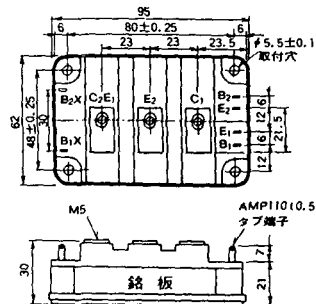
M-8A1A



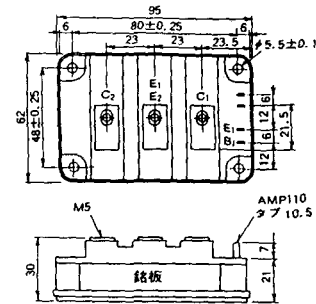
M-8A1B



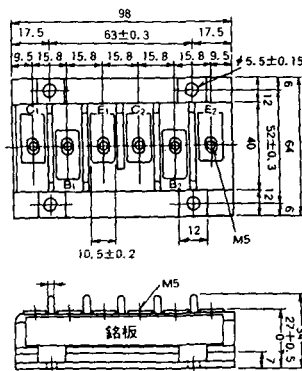
M-8A2A



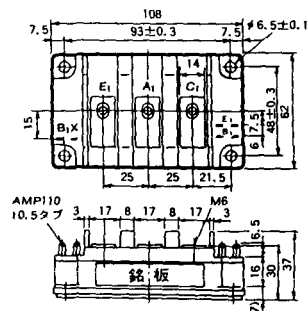
M-8A2B



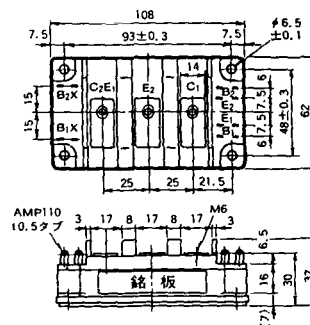
M-8B2A



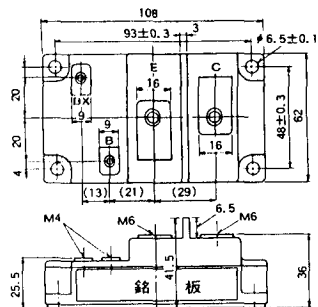
M-9A1A



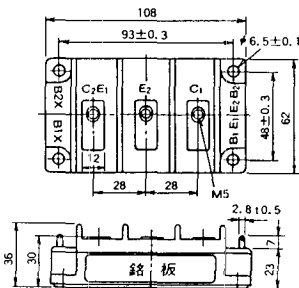
M-9A2A



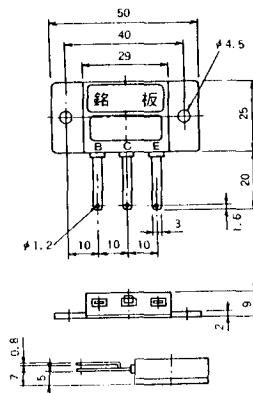
M-9B1A



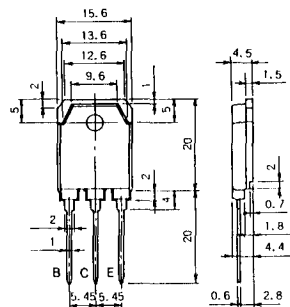
M-9C2A



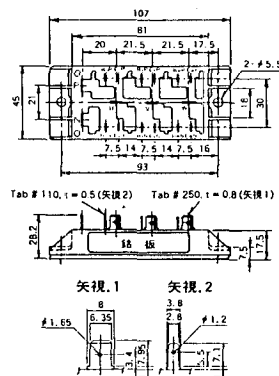
M-1A1B



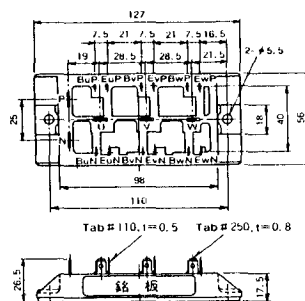
M-1A1C



M-2E6B

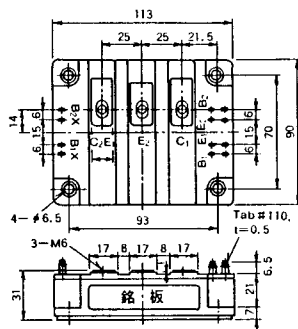


M-2E6C

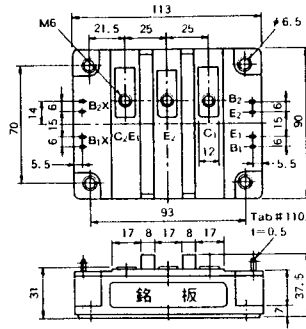




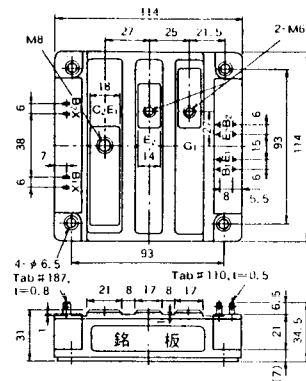
M-10A2A



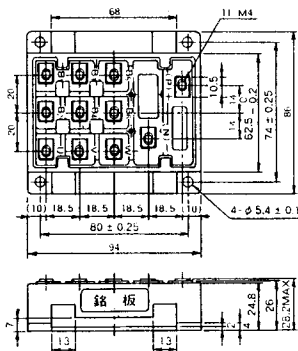
M-10A2B



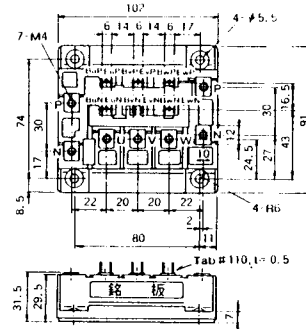
M-11A2A



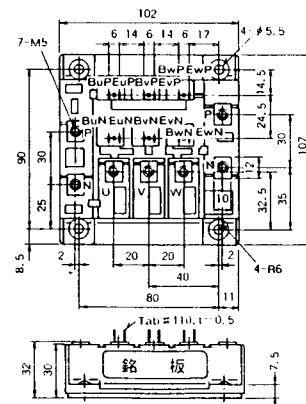
M-12A6A



M-12B6A

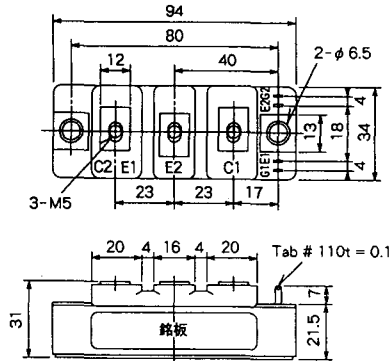


M-12B6B

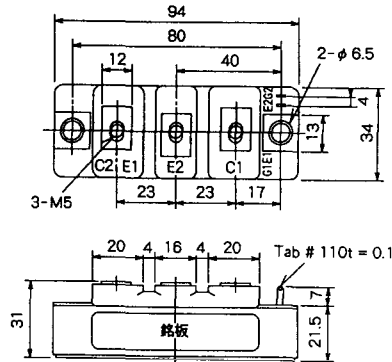




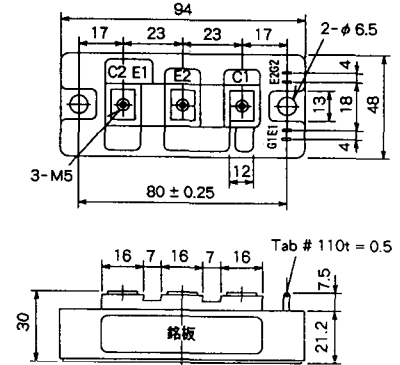
M-4A2D



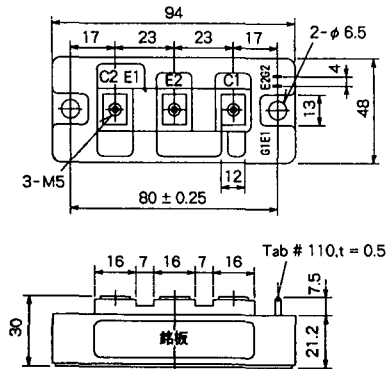
M-4A2E



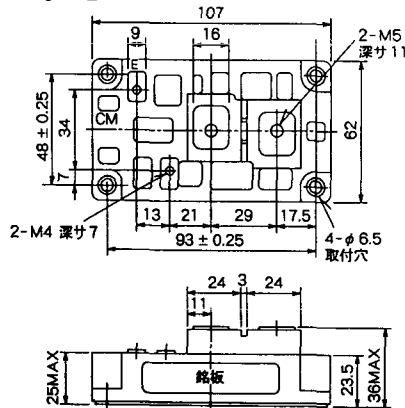
M-4C2A



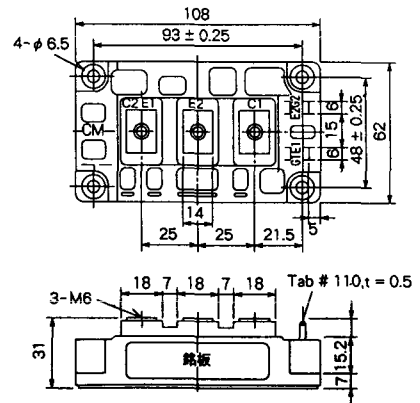
M-4C2B



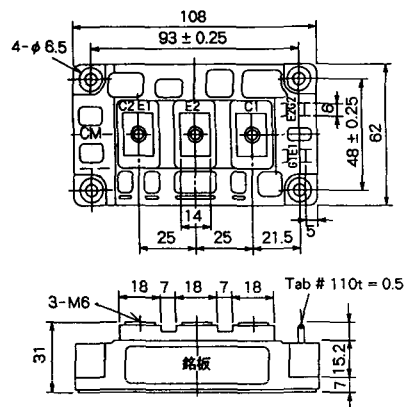
M-9B1C



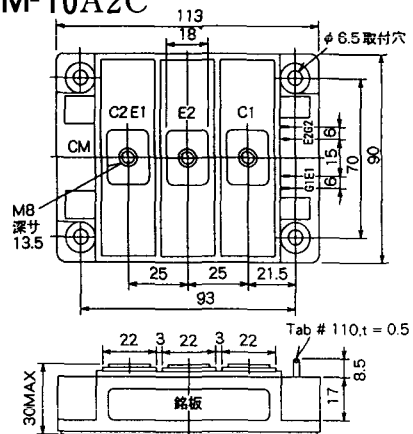
M-9D2A



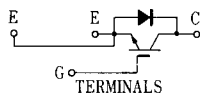
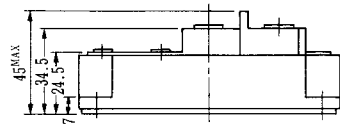
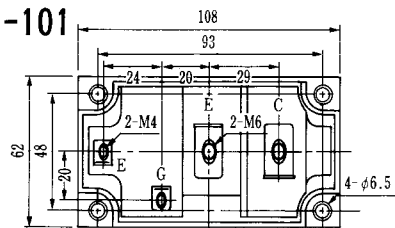
M-9D2B



M-10A2C



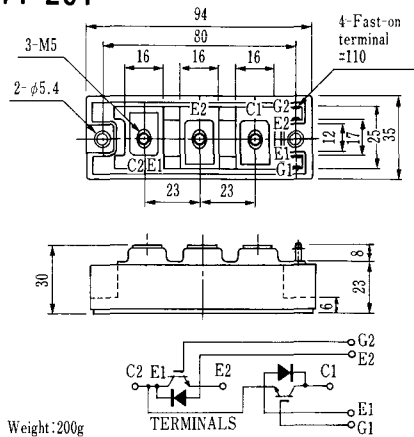
H-101



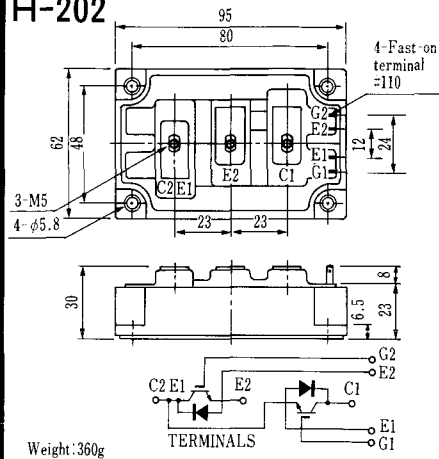
Weight :480g

TERMINALS

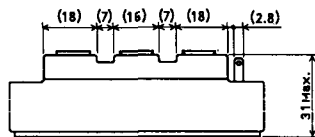
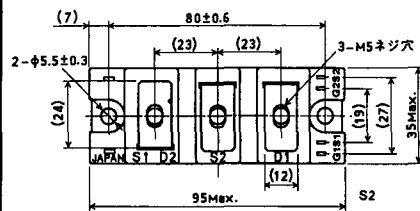
# H-201



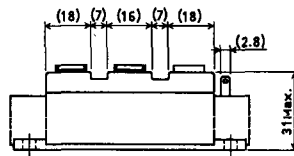
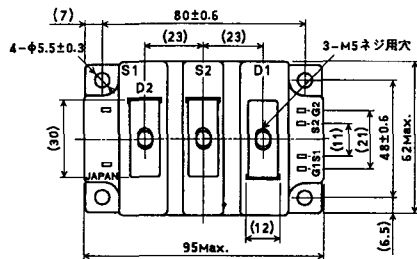
# H-202



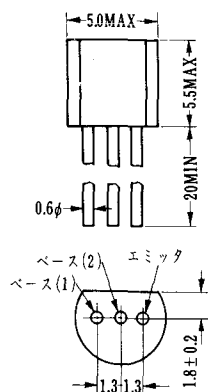
# LF-J



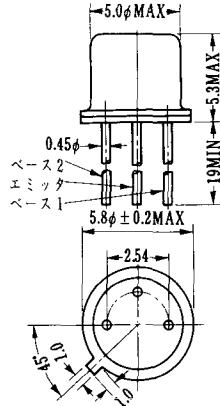
# LF-K



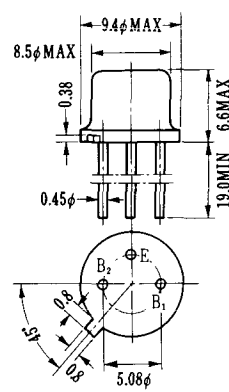
U-1



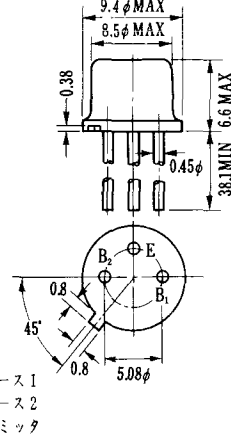
U-2



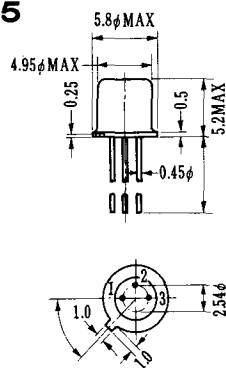
U-3



U-4

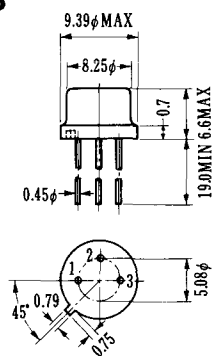


U-5



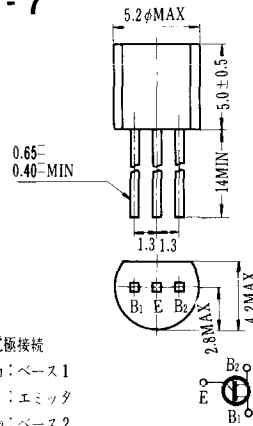
1. BASE 1  
2. EMITTER  
3. BASE 2 (CASE)

U-6



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

U-7



U-8

