

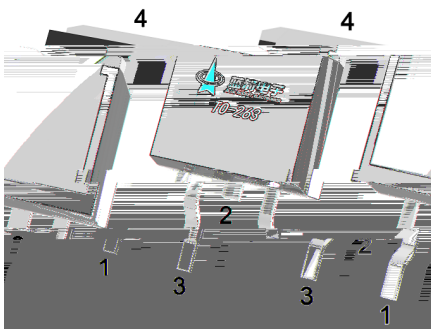
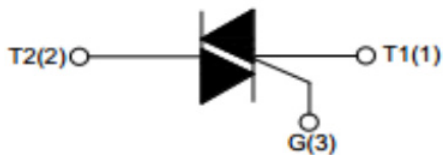
Rev.A Apr.-2024

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Triac in a TO-263 Plastic Package.

Medium current triac, Low on state voltage drop, High reliability and stability, Low thermal resistance, HF Product.

Suitable for general purpose AC switching .Such as static relays, heating regulation, induction motor starting circuits, motor speed controllers, etc.



PIN1 Main Terminal 1 PIN 2 4 Main Terminal 2 PIN 3 Gate

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages($T_j=125$)	V_{DRM}/V_{RRM}	800	V
RMS on-state current($T_C=90$)	$I_{T(RMS)}$	12	A
Non repetitive surge peak on-state current(full cycle, $T_j=25^\circ\text{C}$)	$I_{TSM}(t=20\text{ms})$	120	A
I^2t value for fusing($T_j=25$)	$I^2t_{(tp=10\text{ms})}$	78	A^2s
Critical rate of rise of on-state current ($I_G = 2I_{GT}$, $f=120\text{Hz}$ $T_j=125$)	dI/dt I-II-III	50	$\text{A}/\mu\text{s}$
Peak gate current($t_p = 20\mu\text{s}$ $T_j=125$)	I_{GM}	4.0	A
Average gate power dissipation($T_j=125$)	$P_{G(AV)}$	1	W
Operating junction temperature range	T_j	-40 125	
Storage junction temperature range	T_{stg}	-40 150	
Junction to ambient(AC)	$R_{th(j-a)}$	45	/W
Junction to case for(AC)	$R_{th(j-c)}$	1.4	

Symbol	Test Conditions	Quadrant	Value		Unit
I_{GT}	$V_D=12\text{V}$ $R_L=30$	I-II-III	Max.	10	mA
V_{GT}	$V_D=12\text{V}$ $R_L=30$	I-II-III	Max.	1.3	V
V_{GD}	$V_D=V_{DRM}$ $R_L=3.3\text{K}$ $T_j=125$	I-II-III	Min.	0.2	V
I_L	$I_G=1.2I_{GT}$	I-III	Max.	25	mA
		II		30	
I_H	$I_T=100\text{mA}$		Max.	15	mA
(dV/dt)	$V_D=67\%$ V_{DRM} Gate Open	$T_j=125$	Min.	40	$\text{V}/\mu\text{s}$
V_{TM}	$I_{TM} = 17\text{A}$ $t_p=380\mu\text{s}$	$T_j=25$	Max.	1.55	V
I_{DRM}	$V_D=V_{DRM}$ $V_R=V_{RRM}$	$T_j=25$		10	μA
I_{RRM}		$T_j=125$		1	mA

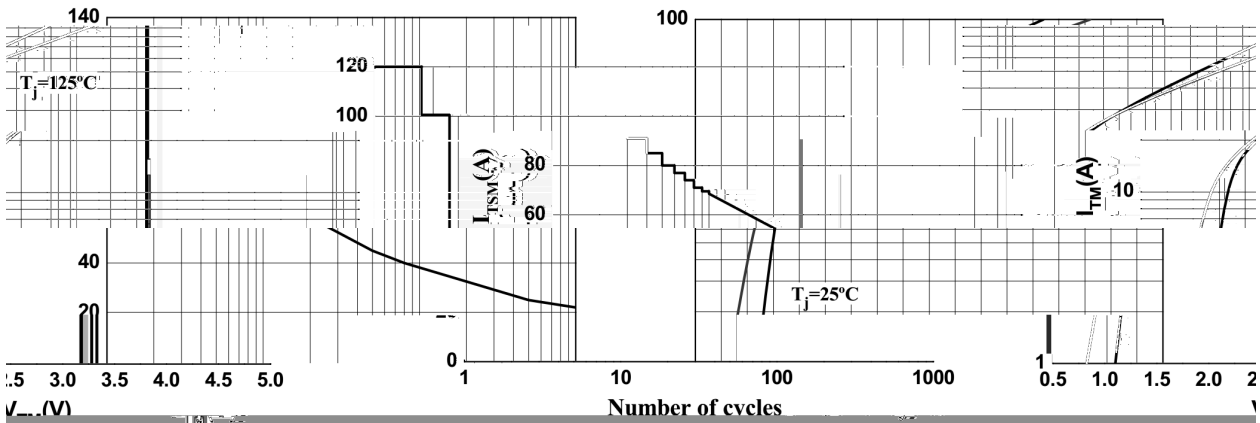
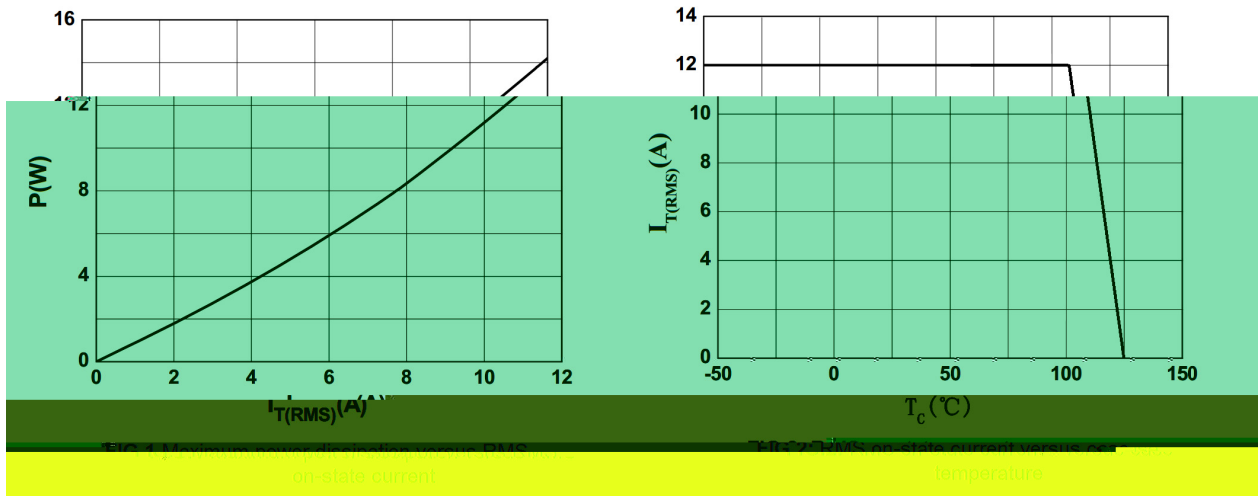


FIG.4: On-state characteristics

FIG.3: Surge peak on-state current versus number of cycles

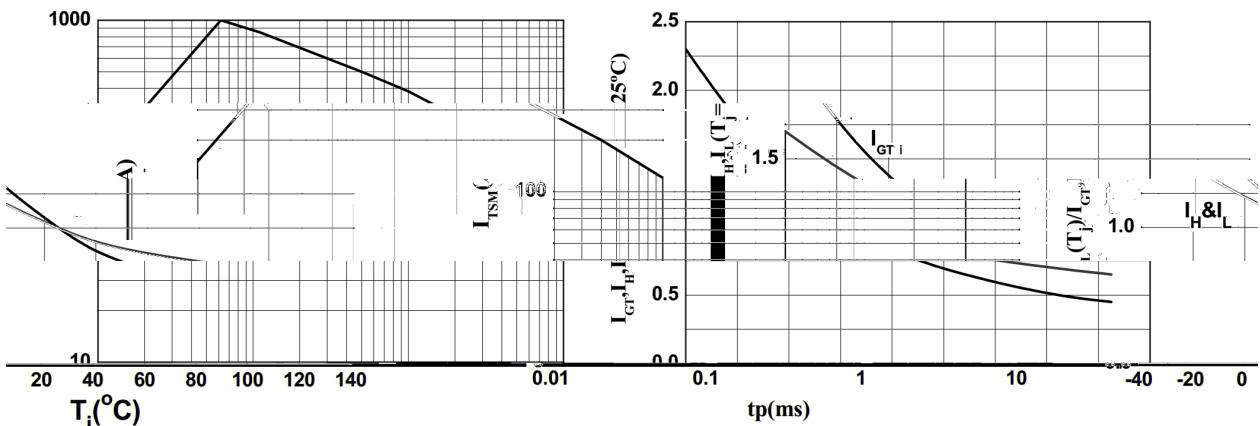
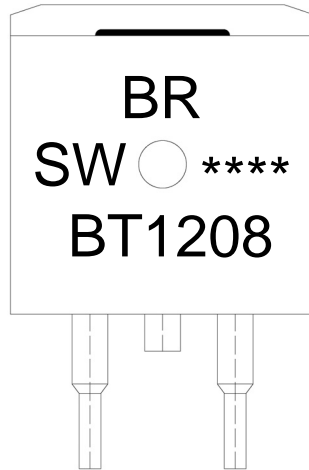


FIG.5: Non-repetitive surge peak on-state current



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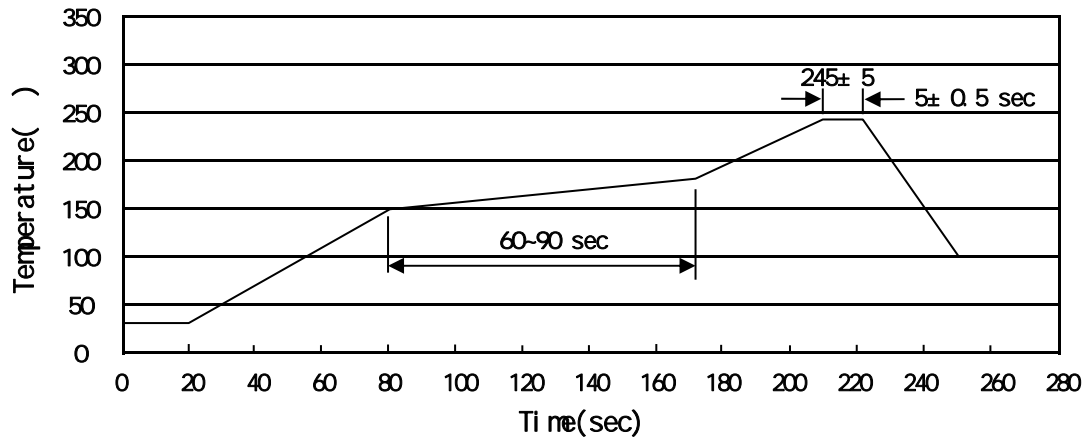
Note:

BR: Company Code

SW: IGT Bracket code

****: Lot No. Code, code change with Lot No

BT1208: Product Type Code



Note:

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|---|--------|-----|------------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245..5 | | 5..0.5sec; | | 2.Peak Temp.:245..5 , Duration:5..0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260..5

10..1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
TO-263	800	1	800	6	4,800	13 x24	360x360x50	380x335x366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-263	50	20	1,000	5	5,000	532x33x7.0	555x164x50	575x290x180