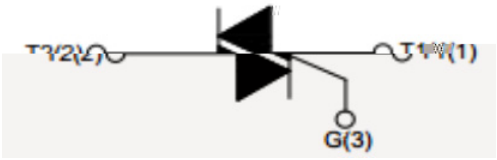
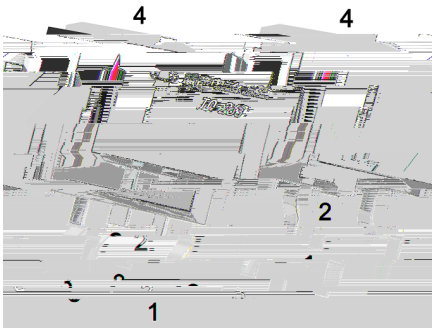
TO-263
Triac in a TO-263 Plastic Package.

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

/ Absolute Maximum Ratings(Ta=25)

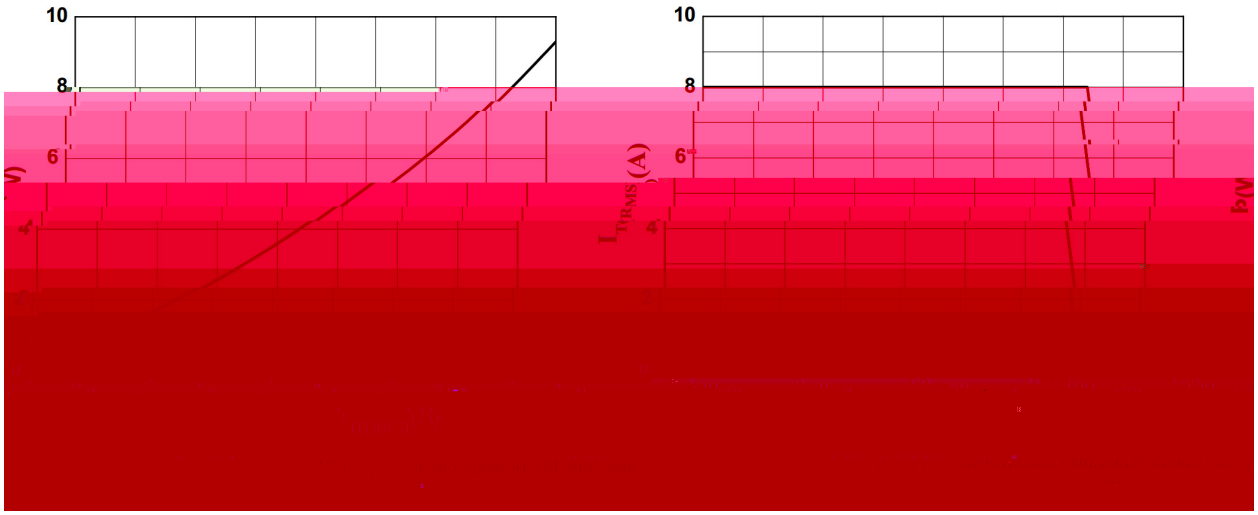
Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages(T_j=125)	V_{DRM}/V_{RRM}	800	V
RMS on-state current(T_C=110)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current(full cycle, T_j=25°C)	$I_{TSM(t=20ms)}$	80	A
I^2t value for fusing(T_j=25)	$I^2t_{(tp=10ms)}$	36	A^2s
Critical rate of rise of on-state current (I_G =2I_{GT}, f=120Hz T_j=125)	dI/dt I-II-III	50	A/μs
Peak gate current(t_p =20μs 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)	$R_{th(j-a)}$	60	/W
Junction to case for(AC)	$R_{th(j-c)}$	1.6	

/ Electrical Characteristics(Tj=25)

3 / Snubberless and logic level 3 quadrants)

Symbol	Test Conditions	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=30Ω	I-II-III	Max.	35	mA
V_{GT}	V_D=12V R_L=30Ω	I-II-III	Max.	1.3	V
V_{GD}	V_D=V_{DRM} R_L=3.3KΩ T_j=125	I-II-III	Min.	0.2	V
I_L	I_G=1.2I_{GT}	I-III	Max.	50	mA
		II		60	
I_H	I_T=100mA		Max.	35	mA
(dV/dt)	V_D=67% V_{DRM} Gate Open	Tj=125	Min.	400	V/μs
V_{TM}	I_{TM} =11A t_p=380μs	Tj=25	Max.	1.55	V
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	Tj=25		10	μA
I_{RRM}		Tj=125		1	mA

/ Electrical Characteristic Curve



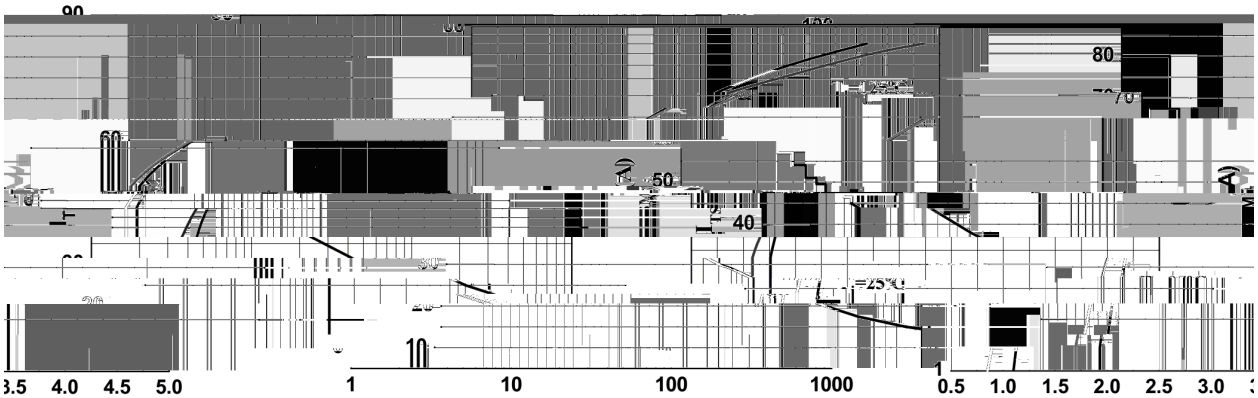
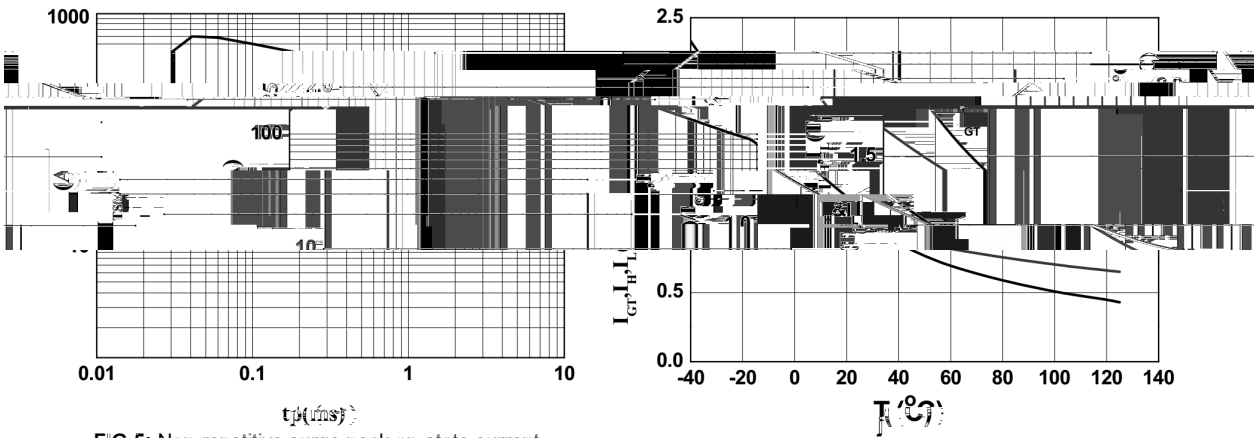


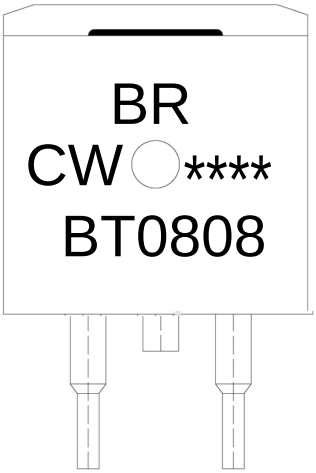
FIG.3: Surge peak on-state current versus



BRBT0808CWBD

Rev.A Oct.-2023

/ Marking Instructions



BR	
CW	I_{GT}
****	
BT0808	

Note:

BR:	Company Code
CW:	I_{GT} Bracket code
****:	Lot No. Code, code change with Lot No
BT0808:	Product Type Code