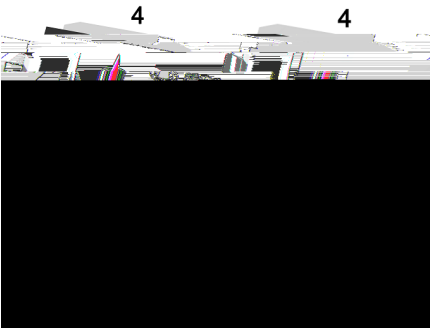
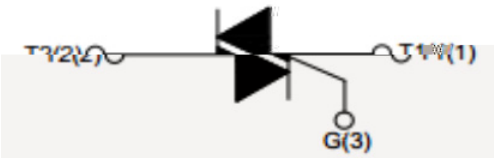


TO-263
Triac in a TO-263 Plastic Package.

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($T_a=25$)

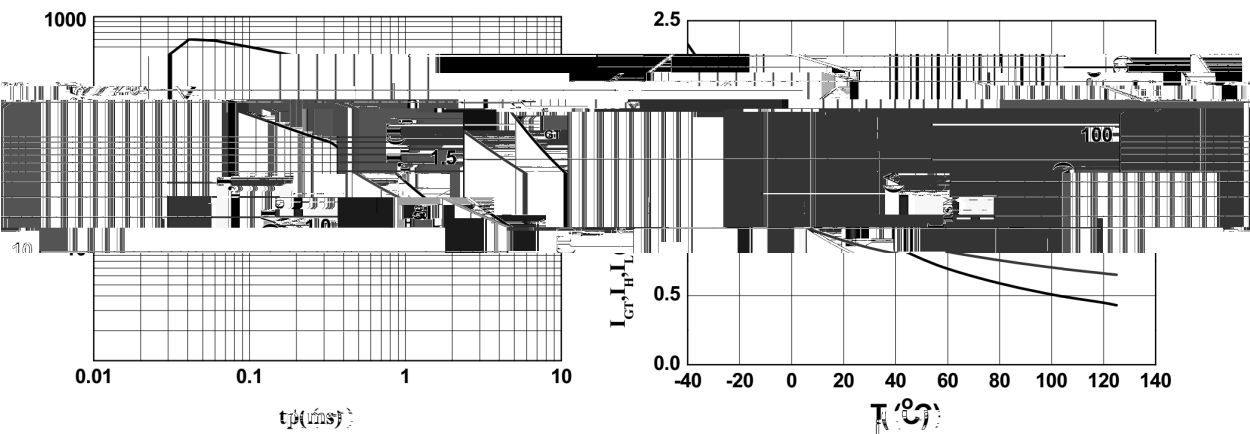
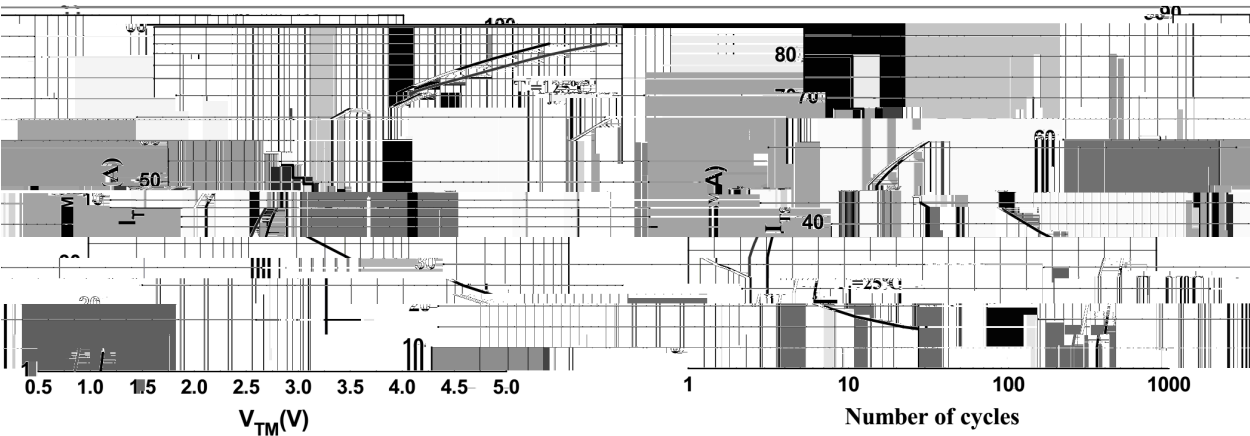
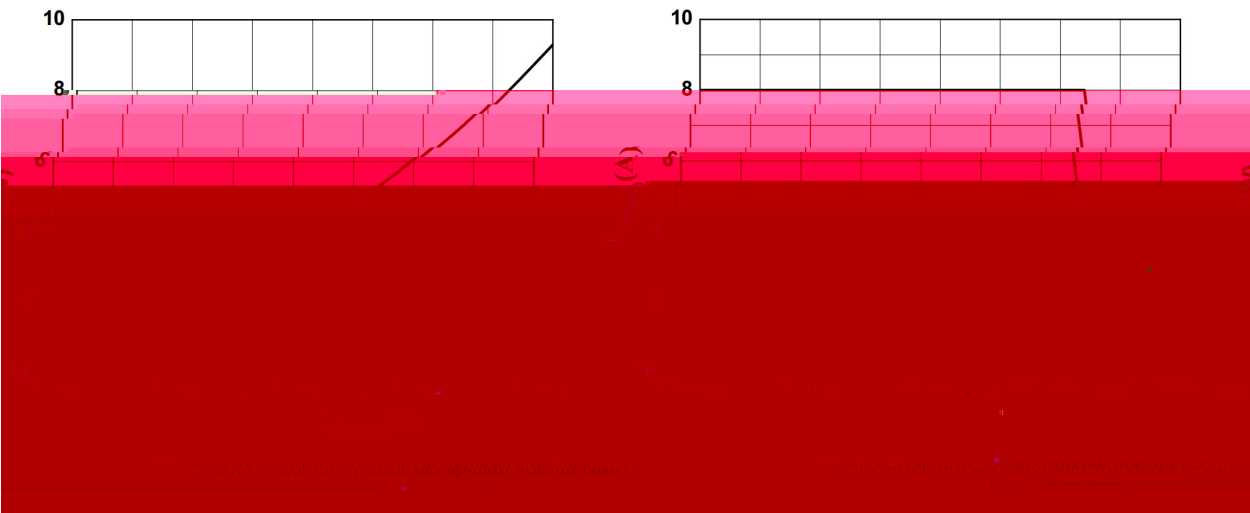
Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages($T_j=125$)	V_{DRM}/V_{RRM}	800	V
RMS on-state current($T_c=110$)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current(full cycle, $T_j=25^{\circ}C$)	$I_{TSM}(t=20ms)$	80	A
I^2t value for fusing($T_j=25$)	$I^2t_{(tp=10ms)}$	36	A ² s
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($t_p=20\mu s$ $T_j=125$)	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)	$R_{th(j-a)}$	60	/W
Junction to case for(AC)	$R_{th(j-c)}$	1.6	

/ Electrical Characteristics($T_j=25$)

3 / Snubberless and logic level 3 quadrants)

Symbol	Test Conditions	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=30\Omega$	I-II-III	Max.	35	mA
V_{GT}	$V_D=12V$ $R_L=30\Omega$	I-II-III	Max.	1.3	V
V_{GD}	$V_D=V_{DRM}$ $R_L=3.3K\Omega$ $T_j=125$	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	$T_j=125$	Min.	400	V/ μs
V_{TM}	$I_{TM}=11A$ $t_p=380\mu s$	$T_j=25$	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

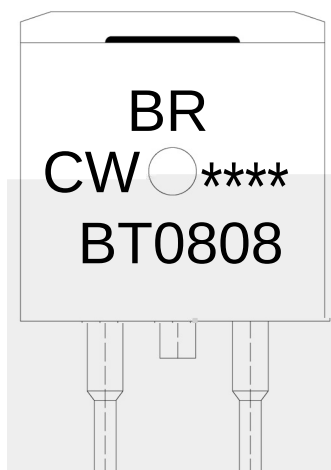
/ Electrical Characteristic Curve



BRBT0808CWBD

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/ 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

BRBT0808CWBD

Rev.A Oct.-2023



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET