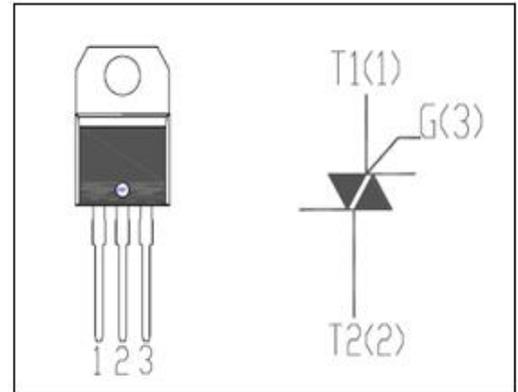


**isc Thyristors**
**BTB08-600C**
**DESCRIPTION**

- With TO-220 packaging
- Operating in 4 quadrants
- High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Switching applications
- Phase control
- Static switching on inductive or resistive load


**ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}\text{C}$ )**

SYMBOL	PARAMETER	MAX	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	600	V
$V_{\text{RRM}}$	Repetitive peak reverse voltage	600	V
$I_{\text{T(RSM)}}$	Average on-state current	8	A
		@ $T_c=110^{\circ}\text{C}$	
$I_{\text{TSM}}$	Surge non-repetitive on-state current	80 84	A
		50Hz 60Hz	
$P_{\text{G(AV)}}$	Average gate power dissipation ( over any 20 ms period )	1	W
$T_j$	Operating junction temperature	-40~125	$^{\circ}\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated; V <sub>D</sub> =V <sub>DRM</sub> Rated;	T <sub>j</sub> =25°C T <sub>j</sub> =125°C		5	μ A
I <sub>DRM</sub>	Repetitive peak off-state current				1	mA
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> =11A;t <sub>p</sub> =380 μ s			1.55	V
I <sub>GT</sub>	Gate-trigger current	V <sub>D</sub> =12V;R <sub>L</sub> =33 Ω		I	25	mA
				II	25	
				III	25	
				IV	50	
V <sub>GT</sub>	Gate-trigger voltage	V <sub>D</sub> =12V;R <sub>L</sub> =33 Ω			1.3	V
R <sub>th(j-c)</sub>	Junction to case	For AC			1.6	°C/W

**NOTICE:**

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