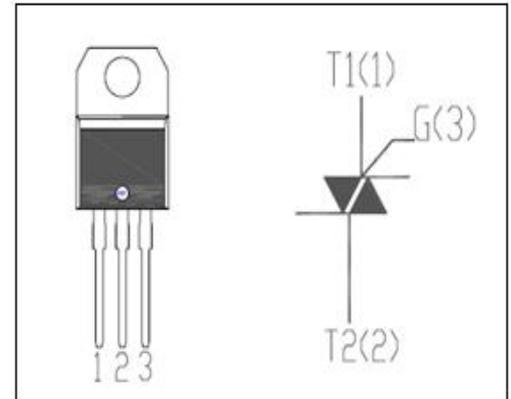


isc Thyristors
BTB08-600SWRG
DESCRIPTION

- With TO-220 packaging
- Can be operated in 3 quadrants
- Advanced technology to provide customers with high commutation performances
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Switching applications

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

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

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;	T _j =25°C		5	μ A
I _{DRM}	Repetitive peak off-state current		T _j =125°C		3	mA
V _{TM}	On-state voltage	I _T =11A; t _p =380 μ s			1.55	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =30Ω;		I	10	mA
				II	10	
				III	10	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =30Ω;			1.3	V
R _{th} (j-c)	Junction to case				1.6	°C/W

NOTICE:

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