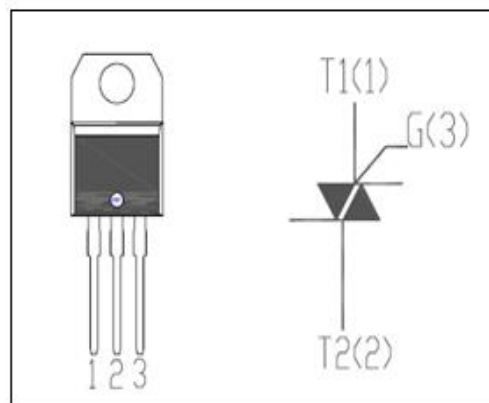


isc Thyristors

BTB25

DESCRIPTION

- With TO-220 packaging
- Can be operated in 4 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	$T_c=75^{\circ}\text{C}$	25	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	250 260	A
$P_{\text{G(AV)}}$	Average gate power dissipation (over any 20 ms period)		1	W
T_j	Operating junction temperature		-40~125	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-40~150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ 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℃ T _j =125℃		5	μ A
I _{DRM}	Repetitive peak off-state current				3	mA
V _{TM}	On-state voltage	I _T =35A; t _p =380 μ s			1.5	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =33Ω;	I		50	mA
			II		50	
			III		50	
			IV		100	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =33Ω;			1.5	V
R _{th j-c}	Junction to case				0.8	℃/W

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