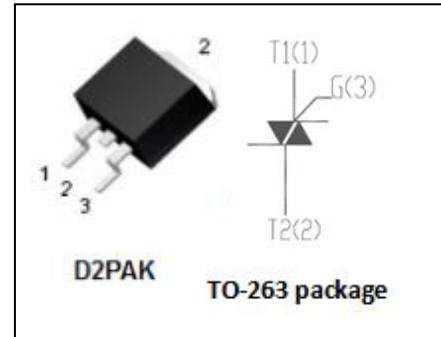


isc Triacs

BT139B-600

FEATURES

- With D2PAK package.
- Glass passivated triacs in a plastic envelope, for use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak off-state voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave)	16	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	160	A
P _{GM}	Peak gate power dissipation	5	W
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	125	°C
T _{stg}	Storage temperature	-40~150	°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} , V _R =V _{RRM} , T _j =125°C		0.02 0.5	mA	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} , V _D =V _{DRM} , T _j =125°C		0.02 0.5	mA	
I _{GT}	Gate trigger current	V _D =12V; I _T = 0.1A		I	35	mA
				II	35	
				III	35	
				IV	70	
V _{GT}	Gate trigger voltage	V _D =12V; I _T = 0.1A		1.5	V	
V _{TM}	On-state voltage	I _T = 20A		1.6	V	
I _H	Holding current	I _{GT} = 0.1A, V _D = 12V		30	mA	

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