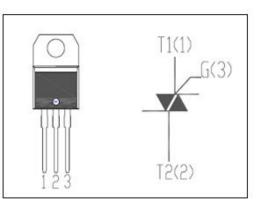


isc Triacs

BT139-800E

FEATURES

- 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	800	V
V _{RRM}	Repetitive peak off-state voltage	800	V
I _{T(RMS)}	RMS on-state current (full sine wave)	16	А
I _{TSM}	Non-repetitive peak on-state current tp=20ms	160	А
P _{GM}	Peak gate power dissipation	5	W
P _{G(AV)}	Average gate power dissipation	0.5	W
Tj	Operating junction temperature	110	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25 $^\circ\!\!\!C$ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		VR=V _{RRM} , V _R =V _{RRM} , Tj=125℃		0.02 0.5	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , Tj=125℃		0.02 0.5	mA
I _{GT}		Ι	- V _D =12V; I _T = 0.1A		10	
	Gate trigger current	II			10	mA
		III			10	
		IV			25	
V _{TM}	On-state voltage		I _T = 20A		1.6	V
I _H	Holding current		I _{GT} = 0.1A, V _D = 12V		30	mA
V _{GT}	Gate trigger voltage		V _D =12V; I _T = 0.1A		1.5	V

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isc website: <u>www.iscsemi.com</u>

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