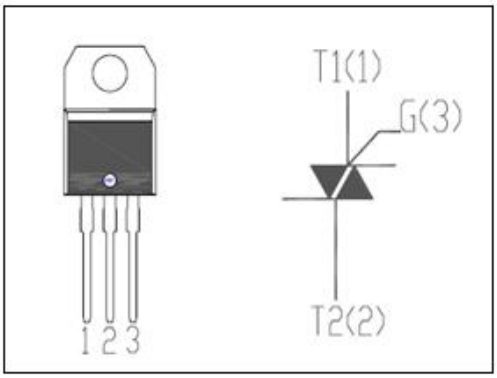
isc Triacs BT139-800E

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℃)

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	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	110	℃
T_{stg}	Storage temperature	-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		V_R=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}	Gate trigger current	I	V_D=12V; I_T= 0.1A		10	mA
		II			10	
		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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