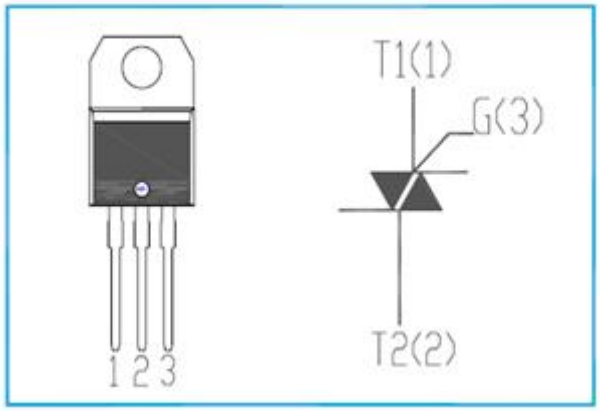
isc Triacs BT137-800



FEATURES

- With TO-220 package
- Glass passivated triacs in a plastic envelope, for use in general purpose bidirectional switching and phase control applications, which are intendedto be interfaced directly to microcontrollers, logic integrated circuits and other low power gate trigger circuits.
- 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)	8	A
I_{TSM}	Non-repetitive peak on-state current	65	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	℃
T_{stg}	Storage temperature	-45~150	℃

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, R_L= 30Ω		35	mA
		II			35	
		III			35	
		IV			70	
V_{TM}	On-state voltage		I_T= 10A		1.65	V
I_H	Holding current		I_{GT}= 0.1A, V_D= 12V		20	mA
V_{GT}	Gate trigger voltage		V_D=12V; R_L= 30Ω all quadrant		1.5	V

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