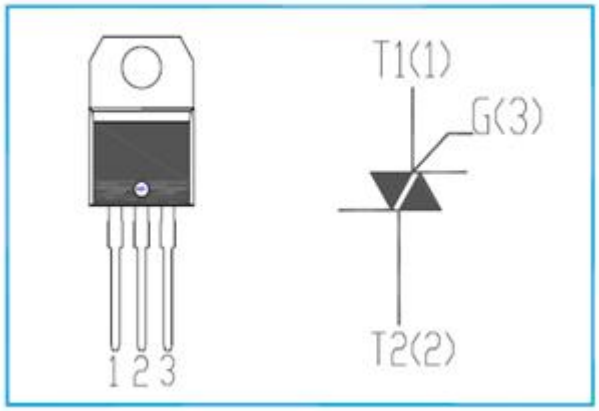
isc Triacs BT138-600E



FEATURES

- With TO-220 package
- Glass passivated triacs in a plastic envelope, Intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all our quadrants.
- 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	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)	12	A
I_{TSM}	Non-repetitive peak on-state current	95	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		10	mA
		II			10	
		III			10	
		IV			25	
V_{TM}	On-state voltage		I_T= 15A		1.65	V
I_H	Holding current		I_{GT}= 0.1A, V_D= 12V		30	mA
V_{GT}	Gate trigger voltage		V_D=12V; R_L= 30Ω all quadrant		1.5	V