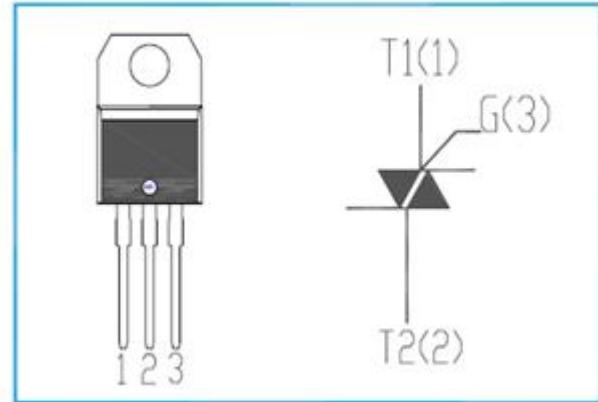


isc Triacs

BT139-600E

FEATURES

- With TO-220 package
- Glass passivated triacs in a plastic envelope, 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.

**ABSOLUTE MAXIMUM RATINGS(T_a=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	140	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	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