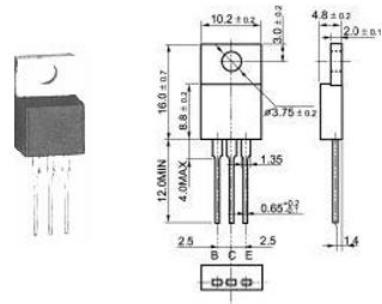


BT139-600E
FEATURES

- With TO-220 package
- Glass passivated triacs in a plastic envelope, or use in app
- 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(Ta=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 (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$, $V_R=V_{RRM}$, $T_j=125^\circ C$		0.02 0.5	mA
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$, $V_D=V_{DRM}$, $T_j=125^\circ C$		0.02 0.5	mA
I_{GT}	Gate trigger current	$V_D=12V$; $I_T=0.1A$	I	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