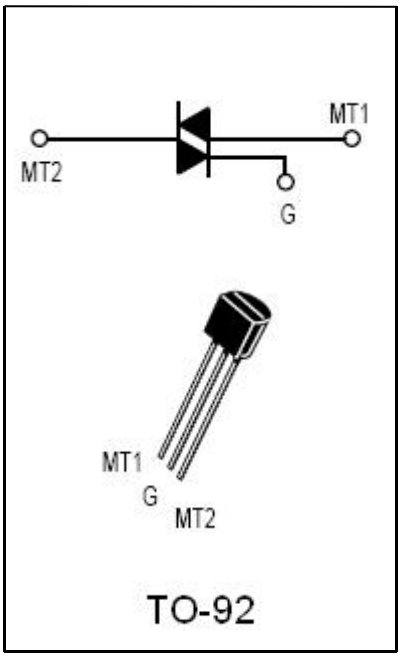
isc Triacs BT131-600E

FEATURES

- With TO-92 package
- Glass passivated,sensitive gate triacs in a plastic envelope
- Intended for use in general purpose bidirectional switching and phase control applications.
- These devices are intended to be interfaced directly to microcontrollers,logic intergrated circuits and other low power gate trigger circuit.
- 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) $T_{lead}\leqslant$ 51℃	1	A
I_{TSM}	Non-repetitive peak on-state current	16	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	-45~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage		I_D=0.1mA	600		V
V_{RRM}	Repetitive peak reverse voltage		I_D=0.5mA	600		V
I_D	Off-state leakage current		V_D= $V_{DRM(max)}$, T_j= 125℃		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=1.6A		1.6	V
I_H	Holding current	I_{GT}=0.1A ,V_D= 12V		5	mA
V_{GT}	Gate trigger voltage	V_D=12V ; R_L=100Ω all quadrant		1.5	V

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