

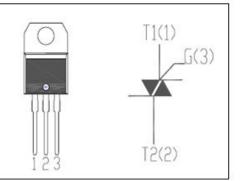
isc Triacs

INCHANGE SEMICONDUCTOR

BTA12-600B

FEATURES

- With TO-220AB insulated package
- Suitables for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
VDRM	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)Tj=90 $^\circ\!\mathrm{C}$	12	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	120	A
Tj	Operating junction temperature	125	°C
T _{stg}	Storage temperature	-40~150	°C
R _{th(j-c)}	Thermal resistance, junction to case	2.3	°C/₩
R _{th(j-a)}	Thermal resistance, junction to ambient	60	°C/₩

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current		V _R =V _{RRM} ,Tj=25℃ V _R =V _{RRM} , Tj=125℃	0.005	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} ,Tj=25℃ V _D =V _{DRM} , Tj=125℃	0.005 1	mA
Igt		Ι	- VD=12V; RL= 30 Ω	50	- mA
	Gate trigger current	II		50	
		III		50	
		IV		100	
Ι _Η	Holding current		I _{GT} = 0.5A, Gate Open	50	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 30 Ω	1.3	V
V _{TM}	On-state voltage		I _T = 17A; t _p = 380 μ s	1.55	V

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