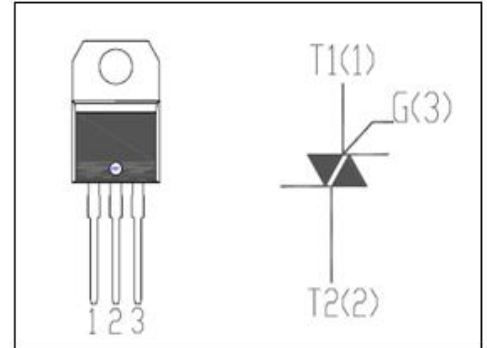


isc Triacs

BTB12-600C

FEATURES

- With TO-220AB non insulated package
- Suitable 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
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 _c =105°C	12	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	120	A
T _j	Operating junction temperature	125	°C
T _{stg}	Storage temperature	-40~150	°C
R _{th(j-c)}	Thermal resistance, junction to case	1.4	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	60	°C/W

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

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		V _R =V _{RRM} , V _R =V _{RRM} , T _j =125°C	0.005 1	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , T _j =125°C	0.005 1	mA
I _{GT}	Gate trigger current	I	V _D =12V; R _L = 33 Ω	25	mA
		II		25	
		III		25	
		IV		50	
I _H	Holding current		I _{GT} = 0.5A, Gate Open	25	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 33 Ω	1.3	V
V _{TM}	On-state voltage		I _T = 17A; t _p = 380 μs	1.55	V

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