

isc Triacs

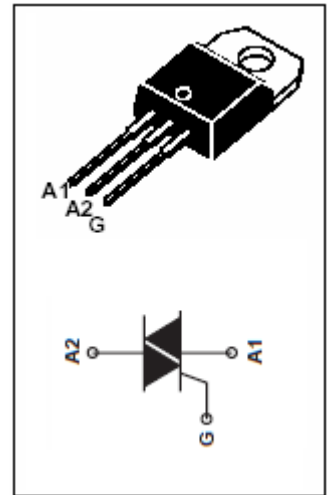
BTA12-600SW

FEATURES

- With TO-220AB 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.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave) T _j =90°C	12	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	120	A
T _j	Operating junction temperature	110	°C
T _{stg}	Storage temperature	-45~150	°C
R _{th(j-c)}	Thermal resistance, junction to case	2.3	°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 =110°C	0.01 0.5	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , T _j =110°C	0.01 0.5	mA
I _{GT}	Gate trigger current	I - II - III	V _D =12V; R _L = 30 Ω	10	mA
I _H	Holding current		I _{GT} = 0.5A, Gate Open	15	mA
V _{GT}	Gate trigger voltage	I - II - III	V _D =12V; R _L = 30 Ω	1.3	V
V _{TM}	On-state voltage		I _T = 17A; t _p = 380 μs	1.55	V