

## isc Triacs

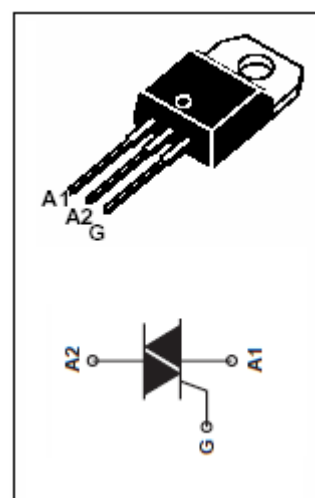
## BTA12-600TW

## 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 <sub>DRM</sub>	Repetitive peak off-state voltage	600	V
V <sub>RRM</sub>	Repetitive peak reverse voltage	600	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) T <sub>j</sub> =90°C	12	A
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	120	A
T <sub>j</sub>	Operating junction temperature	110	°C
T <sub>stg</sub>	Storage temperature	-45~150	°C
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	2.3	°C/W
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	60	°C/W

ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current		V <sub>R</sub> =V <sub>RRM</sub> , V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =110°C	0.01 0.5	mA
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>D</sub> =V <sub>DRM</sub> , V <sub>D</sub> =V <sub>DRM</sub> , T <sub>j</sub> =110°C	0.01 0.5	mA
I <sub>GT</sub>	Gate trigger current	I - II - III	V <sub>D</sub> =12V; R <sub>L</sub> = 30 Ω	5	mA
I <sub>H</sub>	Holding current		I <sub>GT</sub> = 0.5A, Gate Open	10	mA
V <sub>GT</sub>	Gate trigger voltage	I - II - III	V <sub>D</sub> =12V; R <sub>L</sub> = 30 Ω	1.3	V
V <sub>TM</sub>	On-state voltage		I <sub>T</sub> = 17A; t <sub>p</sub> = 380 μ s	1.55	V