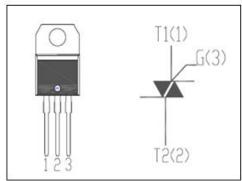


# isc Triacs BTA12-600TW

#### **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.
- 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 <sub>T(RMS)</sub>	RMS on-state current (full sine wave)Tc=90 ℃	12	Α
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	120	Α
T <sub>j</sub>	Operating junction temperature	125	°C
T <sub>stg</sub>	Storage temperature	-40~150	$^{\circ}\mathbb{C}$
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 (Tc=25℃ 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> , Tj=125°C	0.005 1	mA
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>R</sub> =V <sub>RRM</sub> , V <sub>R</sub> =V <sub>RRM</sub> , Tj=125°C	0.005 1	mA
l <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> = 0.1A, Gate Open	10	mA
$V_{GT}$	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

#### **NOTICE:**

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