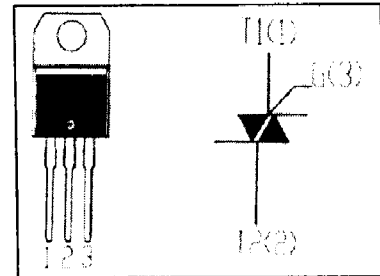


**BTB16-700SWRG**

**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 <sub>DRM</sub>	Repetitive peak off-state voltage	700	V
V <sub>RRM</sub>	Repetitive peak off-state voltage	700	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) T <sub>c</sub> =100°C	16	A
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	160	A
T <sub>j</sub>	Operating junction temperature	125	°C
T <sub>stg</sub>	Storage temperature	-40~150	°C
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	1.2	°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> =125°C	0.005 2	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> =125°C	0.005 2	mA
I <sub>GT</sub>	Gate trigger current	I	10	mA
		II	10	
		III	10	
I <sub>H</sub>	Holding current	I <sub>GT</sub> = 0.5A, Gate Open	15	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant	V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	1.3	V
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> = 22.5A; t <sub>p</sub> = 380 μs	1.55	V

