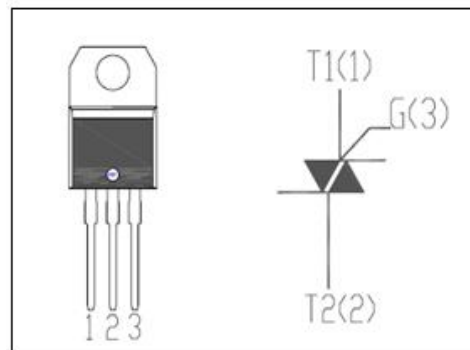


## isc Triacs

## BTA140-800

### FEATURES

- With TO-220AB insulated package
- Be 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	800	V
V <sub>RRM</sub>	Repetitive peak off-state voltage	800	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave)	25	A
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	190	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	1.4	°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 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> =125°C	0.005 0.5	mA
I <sub>GT</sub>	Gate trigger current	V <sub>D</sub> =12V; I <sub>T</sub> = 0.1A	35	mA
			35	
			35	
			70	
I <sub>H</sub>	Holding current	I <sub>GT</sub> = 0.1A, Gate Open	30	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant	V <sub>D</sub> =12V; I <sub>T</sub> = 0.1A	1.5	V
V <sub>TM</sub>	On-state voltage	I <sub>T</sub> = 30A	1.55	V

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