

## isc Triacs

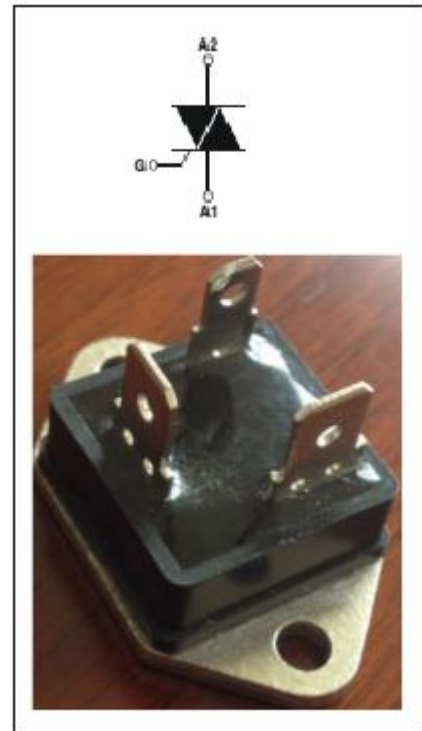
## BTA40-700B

## FEATURES

- Suitable for general purpose AC switching. They can be used as an ON/OFF function in applications such as static relays, heating regulation, Induction motor starting circuits.
- 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 reverse voltage	700	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave) T <sub>j</sub> =95°C	40	A
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =20ms	400	A
T <sub>j</sub>	Operating junction temperature	-40~125	°C
T <sub>stg</sub>	Storage temperature	-40~150	°C
P <sub>G(AV)</sub>	Average gate power dissipation(T <sub>j</sub> =125°C)	1.0	W
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	0.9	°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	0.01 2.0	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	0.01 2.0	mA
I <sub>GT</sub>	Gate trigger current	I	V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	50	mA
		II		50	
		III		50	
		IV		100	
I <sub>H</sub>	Holding current		I <sub>GT</sub> = 0.5A, Gate Open	80	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>TM</sub> = 60A	1.55	V

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