

isc Triacs

BTA40-600B

FEATURES

- Suitables for general purpose AC switching. They can be used as an ON/OFF function in applications such as atatic relays, heating regulation, Induction motor starting circuits.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave)Tj=95 $^\circ\!\!\mathbb{C}$	40	Α
I _{TSM}	Non-repetitive peak on-state current tp=20ms	400	A
Tj	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C
P _{G(AV)}	Average gate power dissipation(T_j =125°C)	1	W
R _{th(j-c)}	Thermal resistance, junction to case	0.9	°C/W

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





ELECTRICAL CHARACTERISTICS (Tc=25[°]C unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current		Vr=V _{RRM} , Vr=V _{RRM} , Tj=125℃	0.01 2.0	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , Tj=125 [°] C	0.01 2.0	mA
I _{GT}		Ι		50	- mA
	Gate trigger current	II	V _D =12V; R _L = 100 Ω	50	
		III		50	
		IV		100	
Ι _Η	Holding current		I _{GT} = 0.5A, Gate Open	60	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 100 Ω	1.5	V
V _{TM}	On-state voltage		I _{TM} = 82A	1.55	V

isc website: <u>www.iscsemi.com</u>

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