

isc Triacs BTA41-600

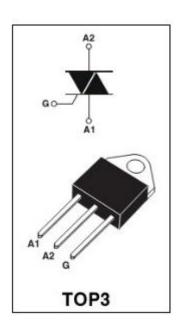
FEATURES

- With TOP3 insulated package
- Suitables for general purpose where high surge current capability is required.

 Application such as phase control and tatic switching on inductive or resistive load.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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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)T _j =80°C	41	Α						
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	410	Α						
T _j	Operating junction temperature	125	$^{\circ}$						
T _{stg}	Storage temperature	-40~150	$^{\circ}$						
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						
R _{th(j-a)}	Thermal resistance, junction to ambient	50	°C/W						



ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		$V_R=V_{RRM}$, $V_R=V_{RRM}$, $T_j=125$ $^{\circ}$ C	0.005 5.0	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , Tj=125°C	0.005 5.0	mA
l _{GT}	Gate trigger current II IV		50		
		II	V _D =12V; R _L = 100 Ω	50	- mA
		III		50	
		IV		100	
I _H	Holding current		I _{GT} = 0.5A, Gate Open	80	mA
V _{GT}	Gate trigger voltage all quadrant		V _D =12V; R _L = 100 Ω	1.3	V
V_{TM}	On-state voltage		I _{TM} = 60A; t _p = 380 μ s	1.55	V

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