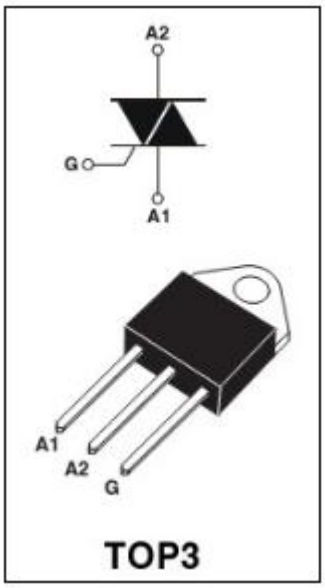
isc Triacs BTA41-800B

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℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)T_j=80℃	41	A
I_{TSM}	Non-repetitive peak on-state current t_p=20ms	410	A
T_j	Operating junction temperature	125	℃
T_{stg}	Storage temperature	-40~150	℃
$P_{G(AV)}$	Average gate power dissipation(T_j=125℃)	1	W
$R_{th(j-c)}$	Thermal resistance, junction to case	0.9	℃/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	50	℃/W



ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{RRM}	Repetitive peak reverse current		V_R=V_{RRM}, V_R=V_{RRM}, Tj=125℃	0.005 5.0	mA
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃	0.005 5.0	mA
I_{GT}	Gate trigger current	I	V_D=12V; R_L= 100Ω	50	mA
		II		50	
		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= 100Ω	1.3	V
V_{TM}	On-state voltage		I_{TM}= 60A; t_p= 380μs	1.55	V

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