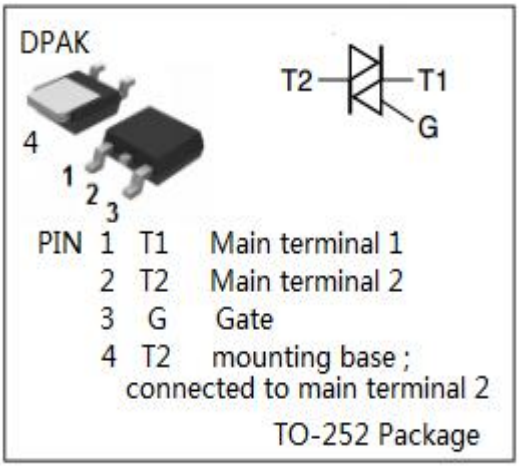
isc Triacs BT136S-800E

DESCRIPTION

- High blocking voltage capability
- Surface-mountable package
- Low holding current for low current loads and lowest EMI at commutation.
- Triggering in all four quadrants
- Very sensitive gate
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



FEATURES

- General purpose motor control
- General purpose switching

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave;Tmb≤107℃)	4	A
I_{TSM}	Non-repetitive peak on-state current(Tj=25℃;Tp=20ms)	40	A
I^2t	I^2t for fusing tp=10ms;sine-wave pulse	8	A^2S
dI/dt	Tj=125℃	100	A/us
I_{GM}	Peak gate current	4	A
$P_{G(AV)}$	Average gate power dissipation	0.5	W
T_j	Operating junction temperature	-40~125	℃
T_{stg}	Storage temperature	-40~150	℃

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ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I_{GT}	Gate trigger current	I	V_D=12V; I_T= 0.1A, R_L= 100Ω	10	mA
		II		10	
		III		10	
		IV		25	
V_{GT}	Gate trigger voltage			1.5	V
I_{RRM}	Repetitive peak reverse current		V_R=V_{RRM}, V_R=V_{RRM}, Tj=125℃	5 500	uA
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃	5 500	uA
V_{TM}	On-state voltage		I_T= 8A	1.5	V
I_H	Holding current		I_{GT}= 0.5A, V_D= 12V	20	mA