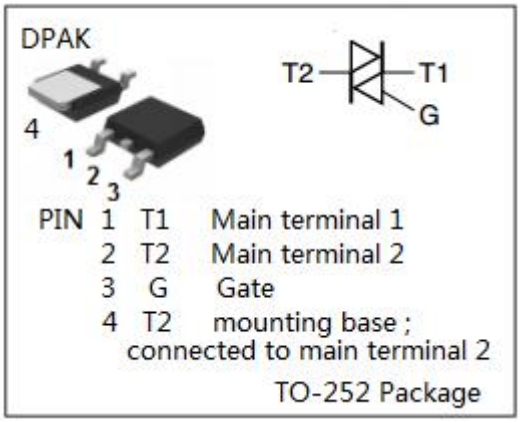
isc Triacs BT136S-600D

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		600	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)		25	A
	Non-repetitive peak on-state current(Tj=25℃;Tp=16.7ms)		27	A
I^2t	I^2t for fusing tp=10ms;sine-wave pulse		3.1	A^2S
dI_T/dt	Rate of rise of on-state current I_T=6A,I_G=0.2A,dI_G/dt=0.2A/us	Ⅰ－Ⅱ－Ⅲ	50	A/us
		Ⅳ	10	A/us
I_{GM}	Peak gate current		2	A
V_{GM}	Peak gate voltage		5	V
P_{GM}	Peak gate power dissipation		5	W
$P_{G(AV)}$	Average gate power dissipation		0.5	W
T_j	Operating junction temperature		125	℃
T_{stg}	Storage temperature		-40~150	℃

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ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
I_{DRM}	Repetitive peak off-state current		V_D=V_{DRM}, V_D=V_{DRM}, Tj=125℃		0.01 0.5	mA
I_{GT}	Gate trigger current	Ⅰ	V_D=12V; I_T= 0.1A, R_L= 30Ω		5	mA
		Ⅱ			5	
		Ⅲ			5	
		Ⅳ			10	
V_{TM}	On-state voltage		I_T= 5A		1.7	V
I_H	Holding current		I_{GT}= 0.1A, V_D= 12V		12	mA
V_{GT}	Gate trigger voltage		V_D=12V; I_T= 0.1A		1.5	V