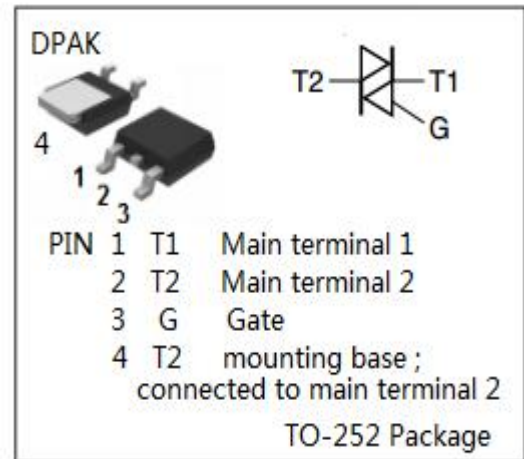


**DESCRIPTION**

- 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°C)**

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave; $T_{mb} \leq 107^\circ\text{C}$ )	4	A
$I_{TSM}$	Non-repetitive peak on-state current ( $T_j = 25^\circ\text{C}$ ; $T_p = 20\text{ms}$ )	40	A
$I^2t$	$I^2t$ for fusing $t_p = 10\text{ms}$ ; sine-wave pulse	8	$\text{A}^2\text{S}$
$di/dt$	$T_j = 125^\circ\text{C}$	100	$\text{A}/\mu\text{s}$
$I_{GM}$	Peak gate current	4	A
$P_{G(AV)}$	Average gate power dissipation	0.5	W
$T_j$	Operating junction temperature	-40~125	$^\circ\text{C}$
$T_{stg}$	Storage temperature	-40~150	$^\circ\text{C}$

## isc Triacs

## BT136S-800E

ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$  unless otherwise specified)

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

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