

## TRIAC

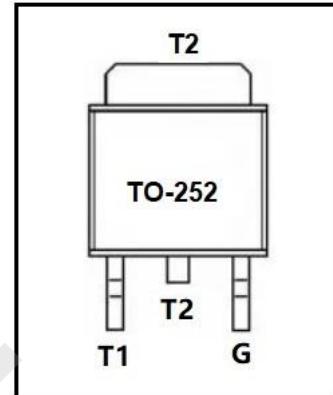
## BT136S

### FEATURES

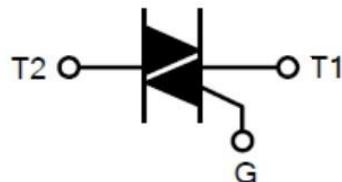
This device of sensitive TRIAC product is a glass passivated device, has a low gate trigger current, high stability in gate trigger current to variation of operating temperature and high off state voltage.

### APPLICATIONS

This device is suitable for low power AC switching application, phase control application such as fan speed and temperature modulation control, lighting control and static switching relay.



### SYMBOL:



### ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE		UNIT
Repetitive Peak Off-State Voltages	$V_{DRM}, V_{RRM}$	$V_{DRM}$ -600D/E	600	V
		$V_{RRM}$ -800D/E	800	
RMS on-State Current	$I_{TRMS}$	4		A
Non-Repetitive Peak On-State Current	$I_{TSM}$	35		A
$I^2t$ for fusing	$I^2t$	6.1		$A^2s$
Repetitive rate of rise of on-state current after triggering	$dIT/dt$	I	50	A/uS
		II	50	
		III	50	
		IV	10	
Peak gate current	$I_{GM}$	2		A
Peak Gate Power	$P_{GM}$	5		W
Average Gate Power	$P_{G(AV)}$	0.5		W
Operating junction temperature	$T_J$	-40~+125		°C
Storage Temperature	$T_{STG}$	-40 ~ +150		°C

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**ELECTRICAL CHARACTERISTICS (TJ=25°C)**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX		UNITS
				D	E	
Peak Repetitive Forward or Reverse Blocking Current	$I_{DRM}$ $I_{RRM}$	$V_{AK}$ = Rated $V_{DRM}$ or $V_{RRM}$ ;		5		uA
Gate Trigger Current	$I_{GT}$	$V_D=12V$ , $R_L=100\Omega$	I		5	10
			II		5	10
			III		5	10
			IV		10	25
Gate Trigger Voltage	$V_{GT}$	$V_D=12V$ , $R_L=100\Omega$		1.5		V
Peak Forward On-State Voltage	$V_{TM}$	$IT=5.5A$		1.6		V
Latch Current	$I_L$	$I_G=1.2I_{GT}$ ,	I		15	15
			II		20	25
			III		15	15
			IV		15	15
Holding Current	$I_H$	$I_T=0.1A$		12	12	mA
Gate Non-Trigger Voltage	$V_{GD}$	$V_D=V_{DRM}$	0.2			V
Critical Rate of Rise of Off-State Voltage	$dV/dt$	$V_D=67\%V_{DRM}$ , $R_{GK}=1k\Omega$	50			V/ $\mu$ s