

## TRIAC

## BT136S

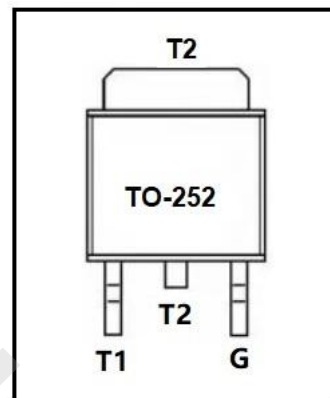
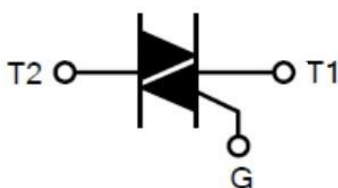
### FEATURES

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	$V_{DRM}, V_{RRM}$	BT136S-600D/E	600	V
		BT136S-800D/E	800	
RMS on-State Current	$I_{T(RMS)}$	4		A
Non-Repetitive Peak On-State Current	$I_{TSM}$	35		A
$I^2t$ for fusing	$I^2t$	6.1		A <sup>2</sup> s
Repetitive rate of rise of on-state current after triggering	$dI_T/dt$	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

**ELECTRICAL CHARACTERISTICS** (T<sub>J</sub>=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	MAX		UNITS
					D	E	
Peak Repetitive Forward or Reverse Blocking Current	I <sub>DRM</sub> I <sub>RRM</sub>	V <sub>AK</sub> = Rated V <sub>DRM</sub> or V <sub>RRM</sub> ;			5		μA
Gate Trigger Current	I <sub>GT</sub>	V <sub>D</sub> =12V, R <sub>L</sub> =100Ω	I		5	10	mA
			II		5	10	
			III		5	10	
			IV		10	25	
Gate Trigger Voltage	V <sub>GT</sub>	V <sub>D</sub> =12V, R <sub>L</sub> =100Ω			1.5		V
Peak Forward On-State Voltage	V <sub>TM</sub>	I <sub>T</sub> =5.5A			1.6		V
Latch Current	I <sub>L</sub>	I <sub>G</sub> =1.2I <sub>GT</sub> ,	I		15	15	mA
			II		20	25	
			III		15	15	
			IV		15	15	
Holding Current	I <sub>H</sub>	I <sub>T</sub> =0.1A			12	12	mA
Gate Non-Trigger Voltage	V <sub>GD</sub>	V <sub>D</sub> =V <sub>DRM</sub>		0.2			V
Critical Rate of Rise of Off-State Voltage	dV/dt	V <sub>D</sub> =67%V <sub>DRM</sub> , R <sub>GK</sub> =1kΩ		50			V/μs