

**JST08H-600B 8A TRIAC**

Rev.A.1.1

DESCRIPTION:

The JST08H-600B triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. From T2 terminals to external heatsink. Package TO-251 is RoHS compliant.

MAIN FEATURES**ABSOLUTE MAXIMUM RATINGS**

Parameter		Symbol	Value	Unit
Storage junction temperature range		T _{stg}	-40-150	
Operating junction temperature range		T _j	-40-125	
Repetitive peak off-state voltage (T _j =25)		V _{DRM}	600	V
Repetitive peak reverse voltage (T _j =25)		V _{RRM}	600	V
RMS on-state current (T _C ≤ 91)		I _{T(RMS)}	8	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)		I _{TSM}	80	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)			88	
I ² t value for fusing (t _p =10ms , T _j =25)		I ² t	32	A ² s
Critical rate of rise of on-state current (I _G =2 × I _{GT} , f=100Hz , T _j =125)	-	di/dt	100	A/μs
	-		50	
Peak gate current (t _p =20μs , T _j =125)		I _{GM}	4	A

Average gate power dissipation ($T_j=125^\circ\text{C}$)

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

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Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33Ω	- -	MAX.	50	mA
				70	
V _{GT}		ALL	MAX.	1	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3kΩ	ALL	MIN.	0.2	V

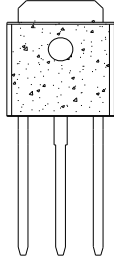
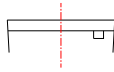
I_L I

FIG.1: Maximum power dissipation versus RMS on-state current



FIG.2: RMS on-state current versus case temperature

PACKAGE MECHANICAL DATA



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