

**JST130U-600D 0.8A TRIAC**

Rev.A.2.1

DESCRIPTION:

The JST130U-600D 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. Package TO-92 is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	0.8	A

 V_{DRM}/V_{RRM} **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 ≤ 51)		I _{T(RMS)}	0.8	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)		I _{TSM}	10	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)			11	
I ² t value for fusing (t _p =10ms , T _j =25)		I ² t	0.5	A ² s
Critical rate of rise of on-state current (I _G =2 × I _{GT} , f=100Hz , T _j =125)	-	dI/dt	50	A/μs
	-		30	
Peak gate current (t _p =20μs , T _j =125)		I _{GM}	1	A
Average gate power dissipation (T _j =125)		P _{G(AV)}	0.1	W
Peak gate power		P _{GM}	5	W
Peak pulse voltage (T _j =25 ; non-repetitive,off-state;FIG.7)		V _{pp}	2.5	kV

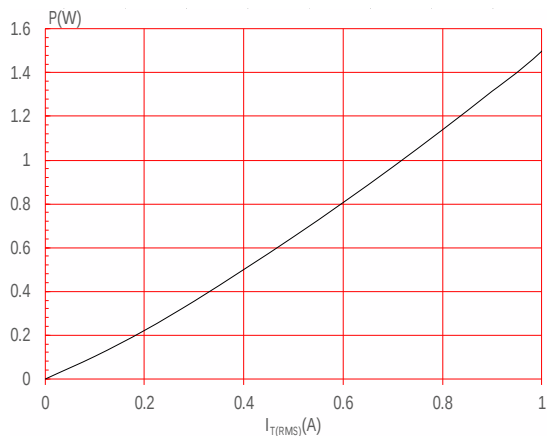
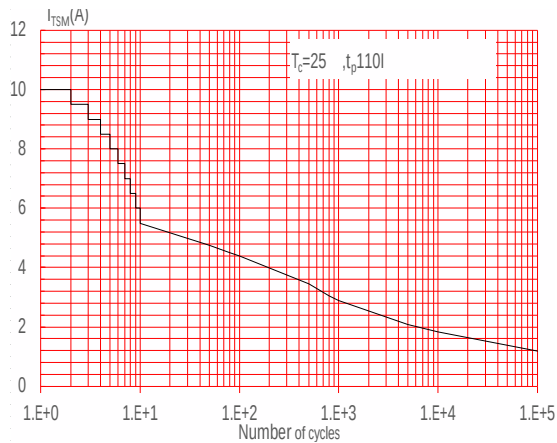
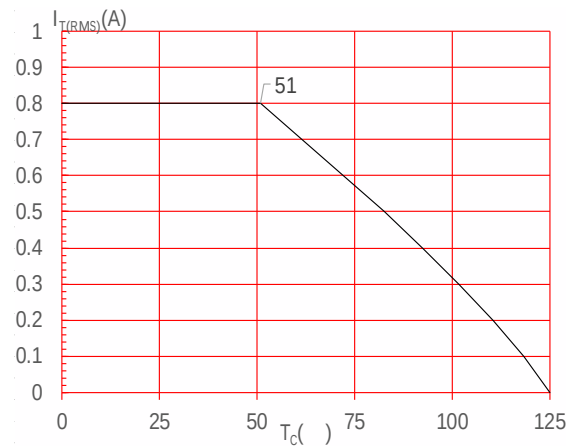
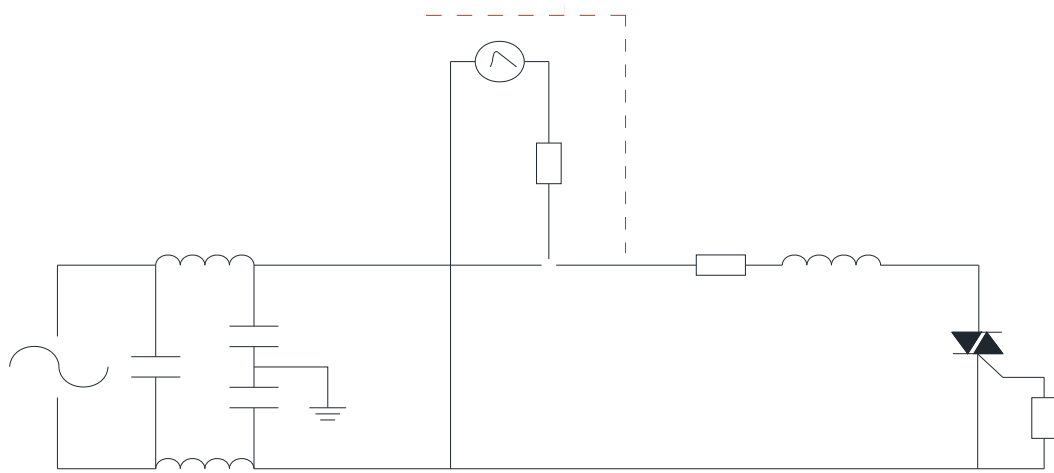
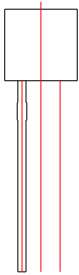
FIG.1: Maximum power dissipation versus RMS on-state current**FIG.3:** Surge peak on-state current versus number of cycles**FIG.2:** RMS on-state current versus case temperature**FIG.4:** On-state characteristics

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



PACKAGE MECHANICAL DATA



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it. Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents.

Jiang " ! spon