

**JST130U-600D 0.8A TRIAC**

Rev.A.2.1

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.

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

 V_{DRM}/V_{RRM}

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

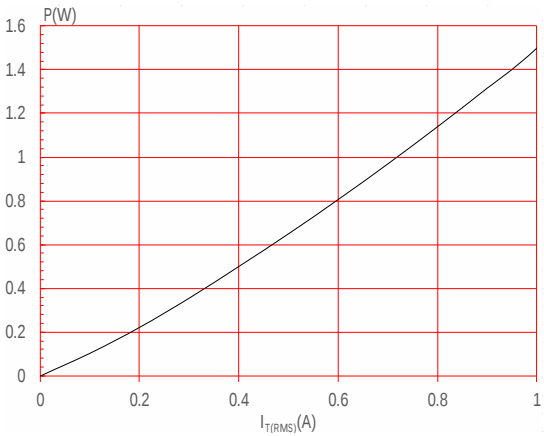


FIG.3: Surge peak on-state current versus number of cycles

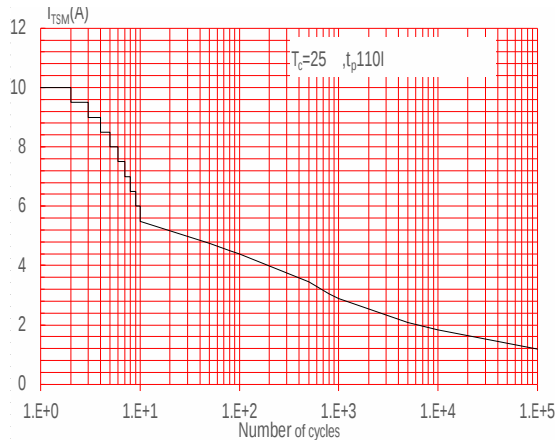


FIG.2: RMS on-state current versus case temperature

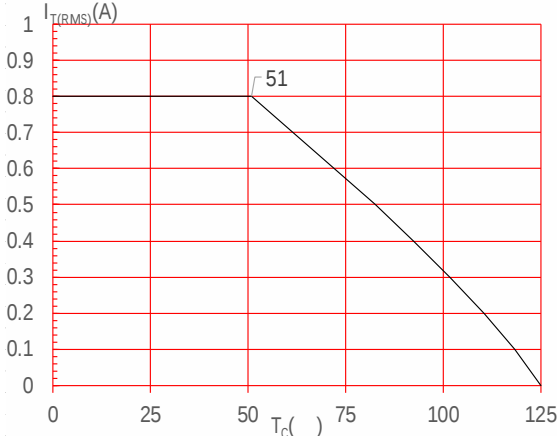
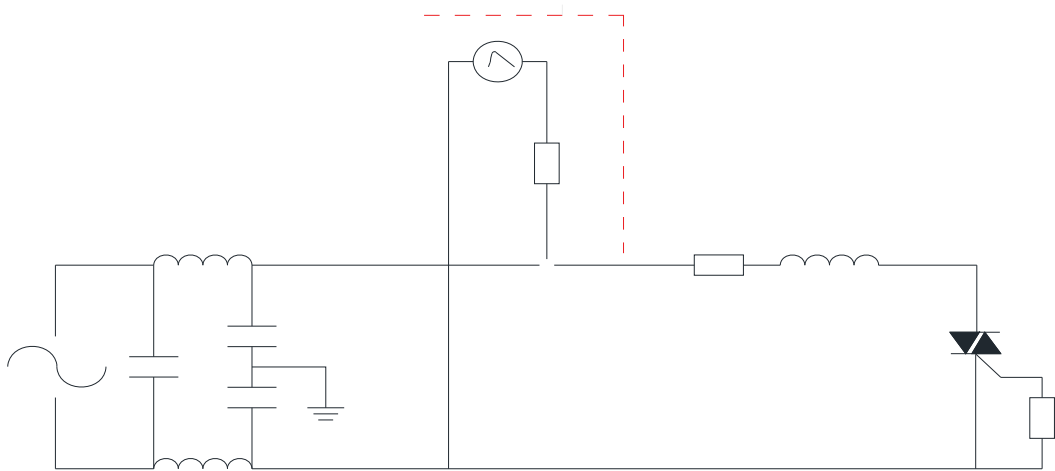
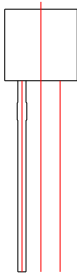


FIG.4: On-state characteristics

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





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