JST02U-800SW 2A TRIAC

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The JST02U-800SW 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, or phase control operation in light dimmers, motor speed controllers. JST02U-800SW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. Package TO-92 is RoHS compliant.

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Parameter	Symbol	Value	unit
Storage junction temperature range	T_{stg}		

3HDN SXOVH YROWDJH 7M QRQ UHSHWLWLYH RII VWDWH),*	9SS		

> dZ/ > , Z d ZT/^25/ XQOHVV RWKHUZLVH VSHFLILHG

Symbol	Test Condition	Quadrant	Value		Unit
IGT	VD = 12V RL = 33 q		0 $;		P $
9*7			0 $;		9
9*'	9' 9'50 7M 5/ N			0 , 1	
,/	,* *;7		0 $;		P $
,+	,7 P $		0 $;		P $
G9 GW' 99 *DWH 2SHQ 7			0,1		9 V
G, GW F G9 GW F 9 V		7	,1 0		PV
WGQ WGll	,* P $ $, P $ 5, P $ 7M		7 < 3		V

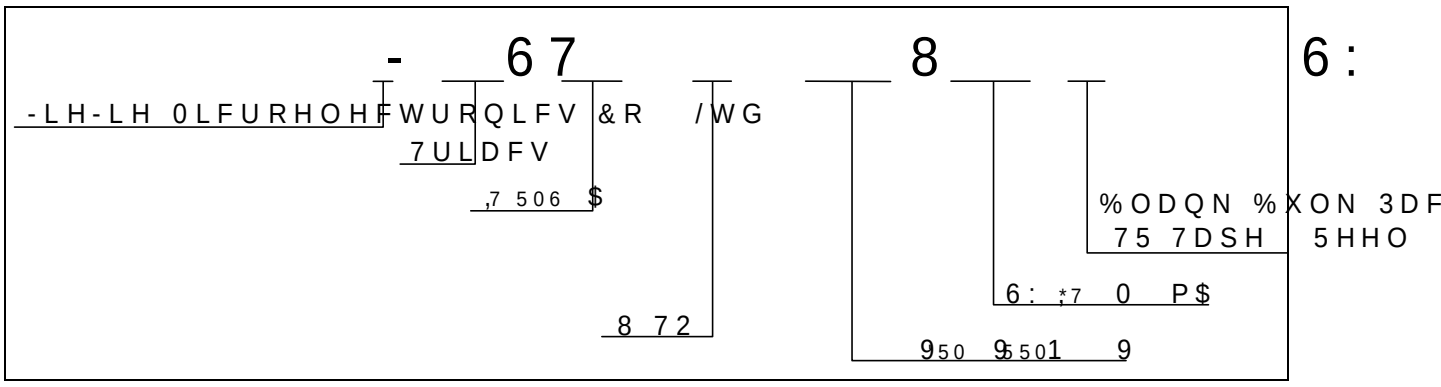
^d d/ , Z d Z/^d/ ^

Symbol	Parameter		Value(MAX.)	Unit
VTM	ITM = 3A tp = 380 ε s	Tj = 25		
972	7KUHVKROG YROWDJH	7M	7	9
5'	'QDPLF UHVLVWDQFH	7M	7	P
,'50	9' 9'50 9RM 9550	7M		
,550		7M		P $

d, ZD > Z ^/^d E ^

Symbol	Parameter	Value	Unit
Rth(j-c)	junction to case (AC)	65	:
5WK MD	MXQFWLRQ WR DPELHQW $&		:

KZ Z/E' /E&KZD d/KE



D Z</E'

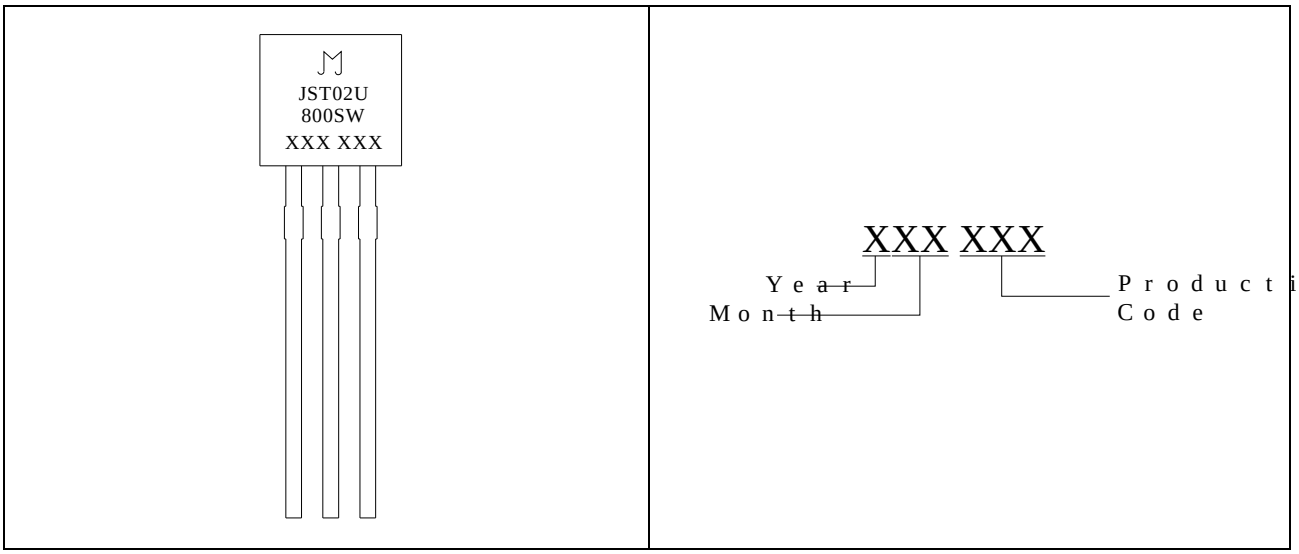


FIG.1: Maximum power dissipation versus RMS on-state current

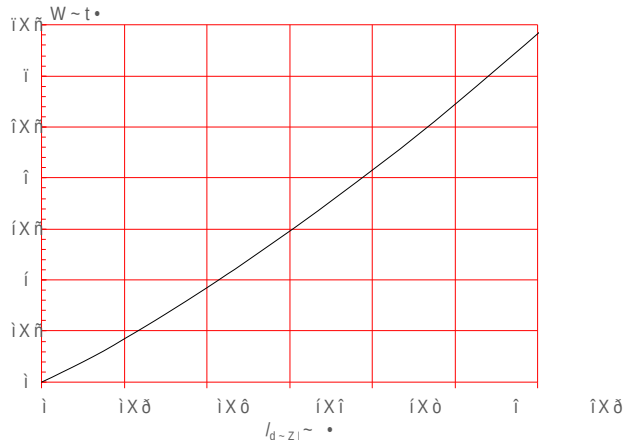


FIG.2: RMS on-state current versus case temperature

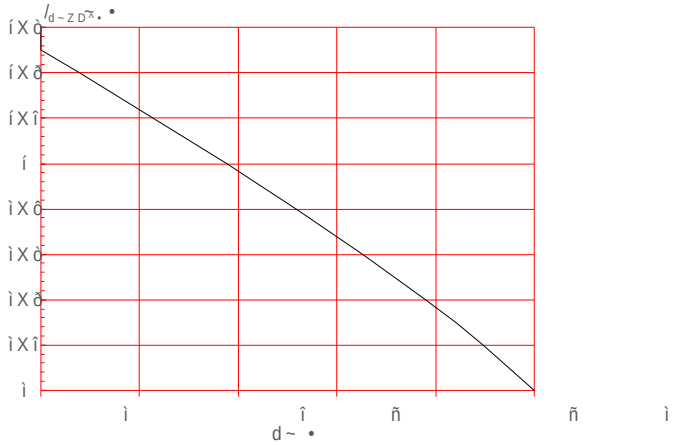


FIG.3: Surge peak on-state current versus number of cycles

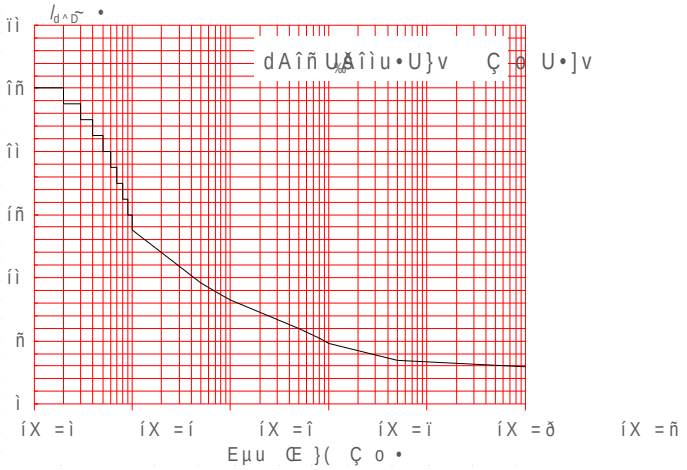


FIG.4: On-state characteristics

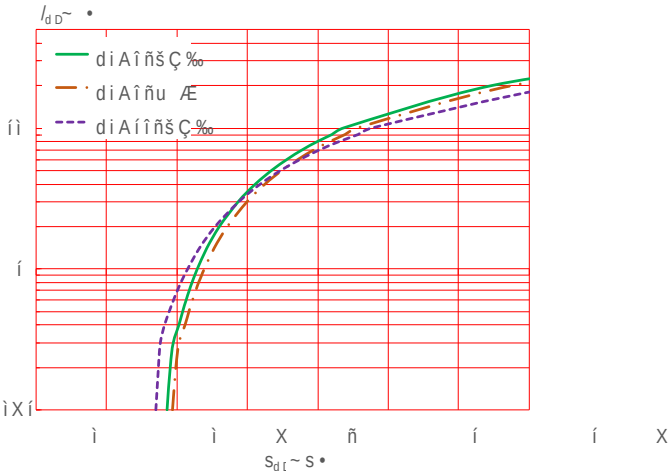
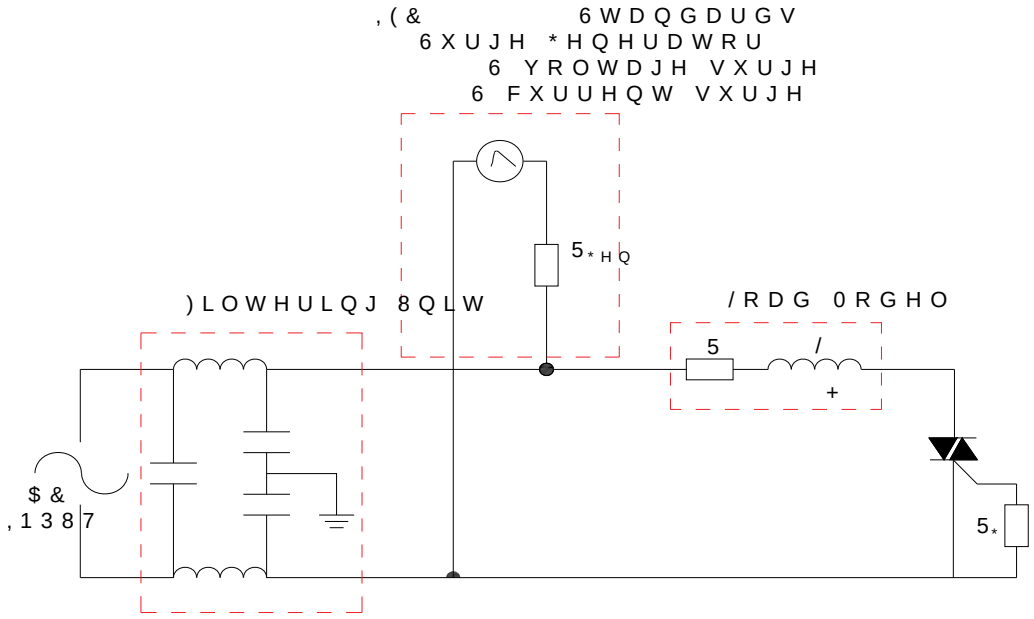


FIG.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width t = 20ms, and

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)LJ * Ö 7HVW FLUFXLW IRU LQGXFWLYH DQG VWDQGDUGV OR



>/s Zz DK

PACKAGE	OUTLINE	BAG (PCS)	INNER BOX (PCS)	CARTON BOX (PCS)
TO-92	Bulk Pack	1,000	10,000	50,000

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,QIRUPDWLRQ IXUQLVKHGV LQ WKLV GRFXPHQW WR EH DFFXUDWH
-LDQJVX -LH-LH 0LFURRHOHFWDVRQLFV &R/WG DVVXPHV QR OLDELOLWLHV UHVXOWLQJ IURP WKH XVH ZLWKRXW FRQVLGHUDWLRQ IRU LWV FRUUHFWQHVV RU DSSOLFDELOLWLHV Q
PHQWLRQHG LQ WKLV GRFXPHQW WKLV GRFXPHQW GRHV QRW FRQIHU E\ LPSOLFDWLRQ RU RWKHUZLVH DQ\ OLFHQVH
DJUHHPHQW LV VLJQHG FRQFHUQLQJ WKH VDOH RI -LDQJVX -LH-LH
3URGXFWV DQG LQIRUPDWLRQ SURYLGHG LQ WKLV GRFXPHQW
-LDQJVX -LH-LH DVVXPHV QR OLDELOLWLHV UHVXOWLQJ IURP WKH XVH RI
SDUWLHV ZKLFK PD\ UHVXOW IURP WKHLU IDLOXUH WR FRQIRUP WR
VXSHUVHGHV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXV
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