JST131U-600T 1A TRIAC

Rev.A.2.1

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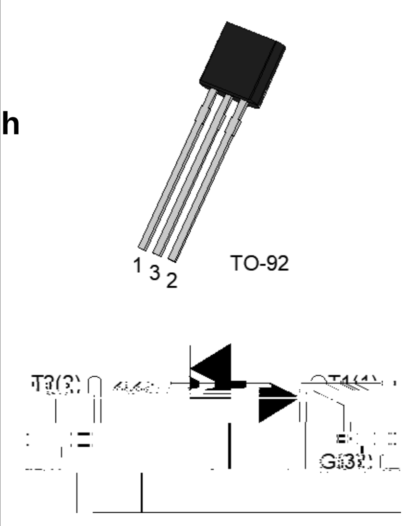
T h e JST131U-600T triac is suitable f or general purpose AC switc h ing. It can be used as an ON/OFF f unction in applications suc h as heating regulation, induction motor starting circuits,r for phase control operation in lig h t dimmers, motor speed controllers. Complying wit h UL standards (File re f : E252906). Package TO-92 is RoHS compliant.



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6\PERO	9DOXH	8QLW
,7 506		
9'50 9550		9
,*7		P$

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Parameter	Symbol	Value	Unit
Storage junction temperature range	Tstg	-40-150	
2SHUDWLQJ MXQFWLRQ WHPSHUDWXUH UDQJH	M		7
5HSHWLWLYH SHDN RII VWDWH YROWDJH	9'50	7	
5HSHWLWLYH SHDN UHYHUVH YROWDJH	9550	7	
506 RQ VWDWH FXUUHQW &0 7	,7 506		
1RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW IXOO F\FOH M 7	,760		$
1RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW IXOO F\FOH M 7			
,W YDOXH IRU PXVLQJ W	,W		V$
&ULWLFDO UDWH RI ULVH RI RQ VWDWH FXUUHQW ; h ,*7 I +] M 7	G, GW		$ V
3HDN JDWH FXUUHQW W	,*0		$
$YHUDJH JDWH SRZHU GLVVLSDWLRQ M 7	3*$9		
3HDN JDWH SRZHU	3*0		

3HDN SXOVH YROWDJH 7M QRQ UHSHWLWLYH RII VWDWH	933),*		

> dZ/ > , Z d Z(Tj=25/ X^QOHVV RWKHUZLVH VSHFLILHG

Symbol	Test Condition	Quadrant	Value		Unit
IGT	VD = 12V RL = 33 q	ALL	MAX.	5	mA
VGT		ALL	MAX.	1.3	V
VGD	VD = VDRM Tj = 125 5/ N	$//	0,1		9
,/	,* *;7		0$;		P$
,+	,7 P$		0$;		P$
G9 GW' 99 *DWH 2SHQ 7M			0,1		9 V
G9 GW F G, GW IT $ PV			7 0,1		9 V
WQ	,* P$ $, P$ 5, P$ 7M		7 < 3		V
WI I					

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Symbol	Parameter		Value(MAX.)	Unit
VTM	ITM = 1.4A tp = 380 εs	Tj=125		
972	7KUHVKROG YROWDJH 7M			
5'	'QDPLF UHVLVWDQFH 7M			P
,'50	9' 9'50 9R 9550	7M		
,550		7M		

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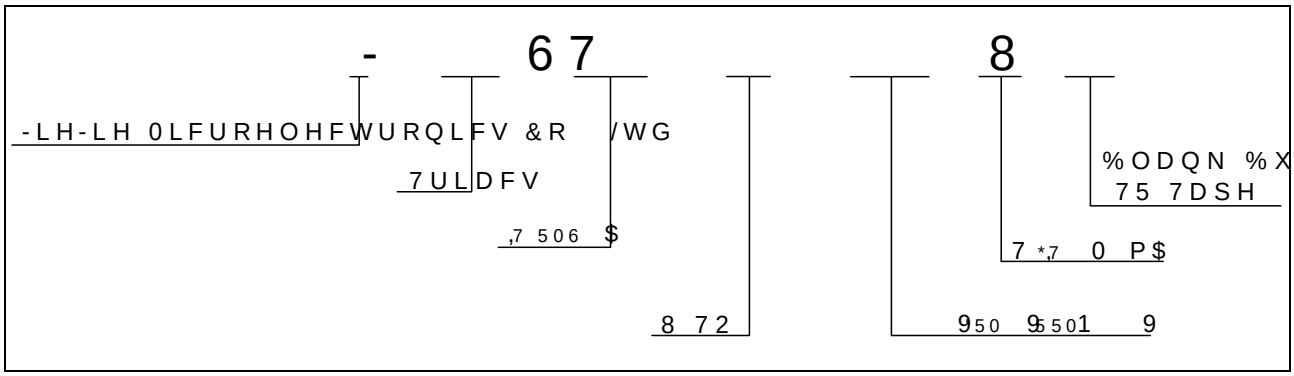
Symbol	Parameter	Value	Unit
Rth(j-c)	junction to case (AC)	60	:/W
5WK M D	MXQFWLRQ WR DPELHQW $&		:/W

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



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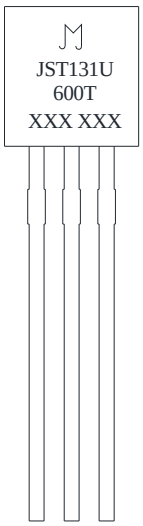

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Year — Production Code

Month

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

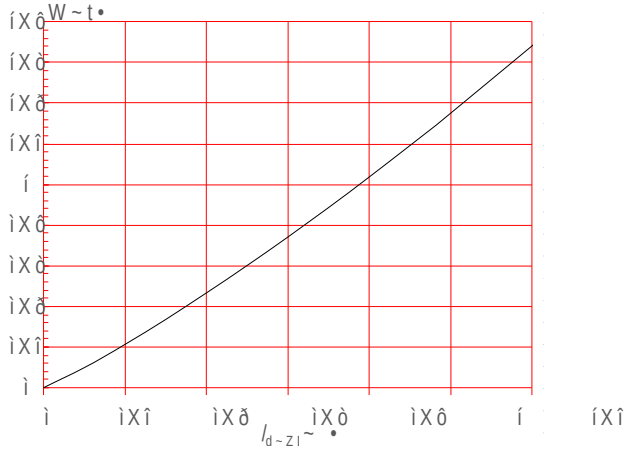


FIG.2: RMS on-state current versus case temperature

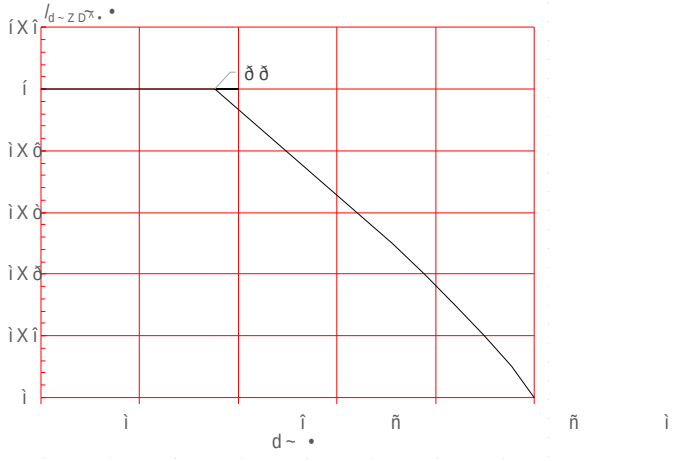
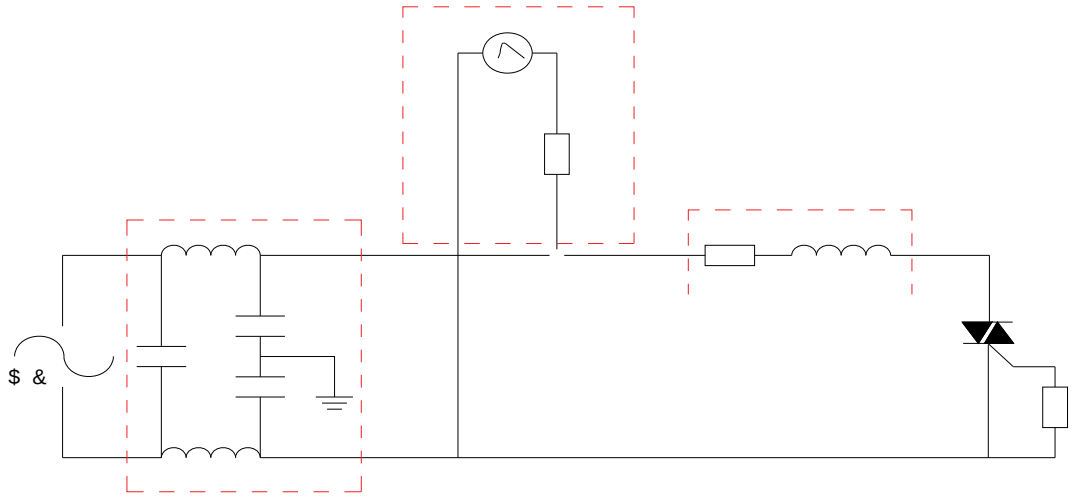


FIG.3: Surge peak on-state current versus number of cycles

FIG.4: On-state characteristics

), * Ö 7HVW FLUFXLW IRU LQGXFWLYH DQG VWDWLF ORDGV



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