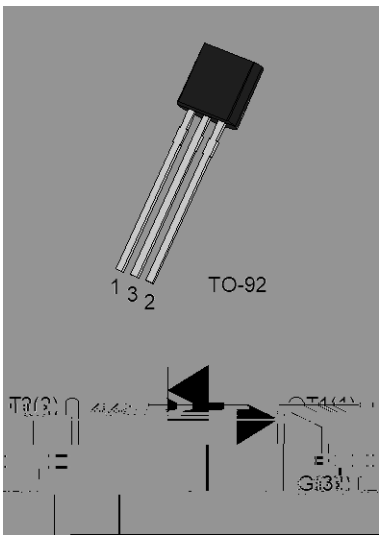
JST131U-600T 1A TRIAC

Rev.A.2.1

59 { /wLt¢L h b Y

T h e JST131U-600T triac is suitable f or general purpose AC swit c h ing. It can be used as an ON/OFF f unction in applications suc h as h ing regulation, induction motor starting circuits, r f or 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.



a ! Lb C9 ! ¢ ¦ w9 {

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

! . { h [¦ ¢9 a ! · La ¦ a w ! ¢LbD {

Parameter	Symbol	Value	Unit
Storage j unction tem perature range	**Tstg**	**-40-150**	
2SHUDWLQJ WHPSHUDWXUH UDQJH M			7
5HSHWLWLYH SHDN RII VWDWH YROWDJH 7	9'50 9RRM		
5HSHWLWLYH SHDN UHYHUVH YROWDJH 7	95(3		
506 RQ VWDWH&0FXUUHQW 7	,7 506		
1RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW IXOO F\FOH3HW M W	,760		$
1RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW IXOO F\FOHPV M W7			
,W YDOXH IRU IXVLQJ W	,W		V$
&ULWLFDO UDWH RI RIIVWDWH YROWDJH ULVH ;h,*7 I +]M 7	G, GW		$ V
3HDN JDWH SFXUUHQW W	,*0		$
$YHUDJH JDWH SRZHU GLVVLSDWLRQ 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
WII					

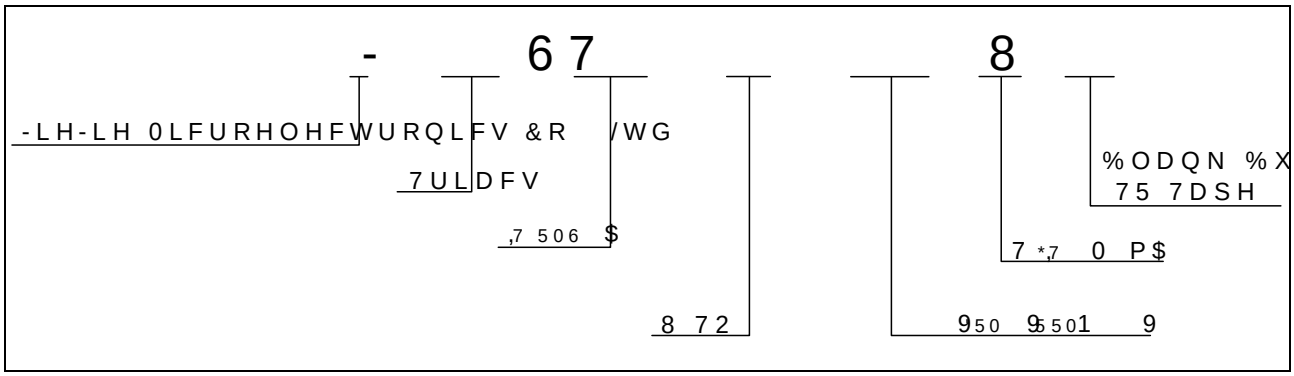
^d d/ , Z d Z/^d/ ^

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		

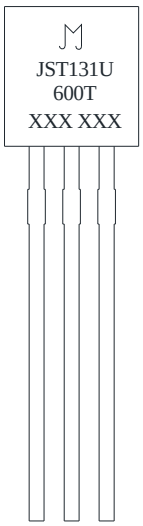
d, ZD > Z ^/^d E ^

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

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



D Z</E'



XXX XXX

Year — Production Code

Month

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

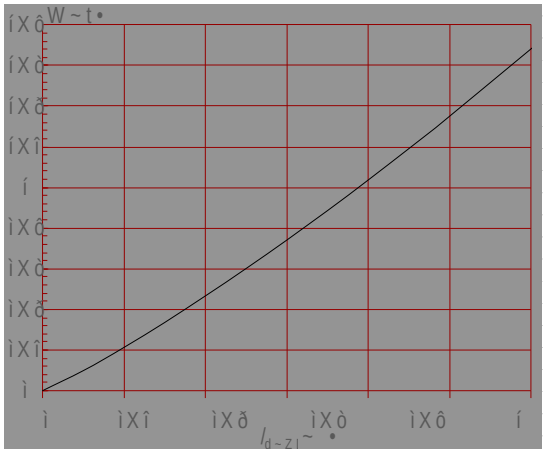


FIG.2: RMS on-state current versus case temperature

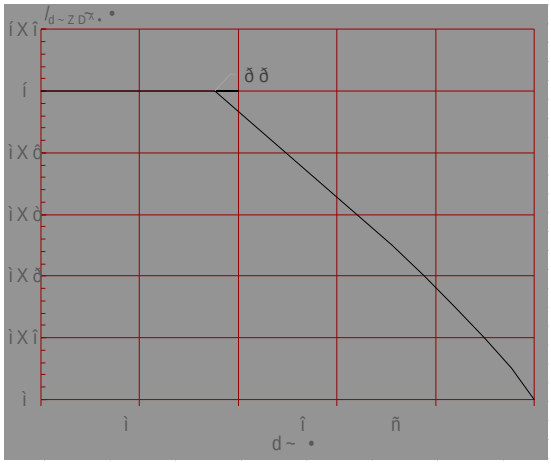
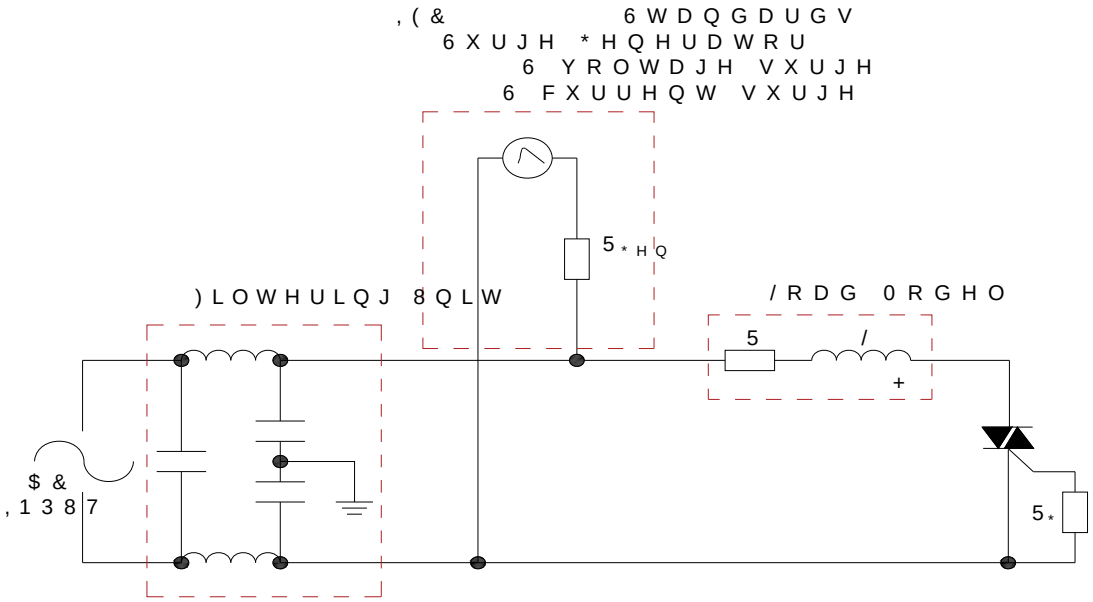


FIG.3: Surge peak on-state current versus number of cycles

FIG.4: On-state characteristics

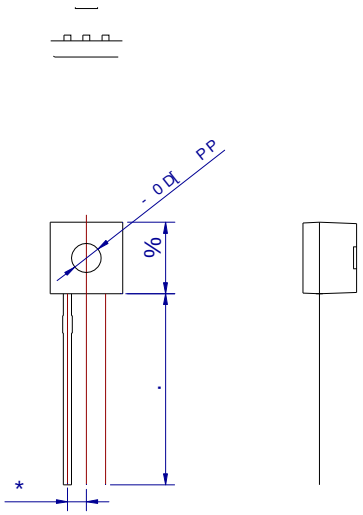
)LJ Ö 7HVW FLUFXLW IRU LQGXFWLYH DQG VWDWLF ORDGV



> &KZD/E' E ^K> Z/E'

5HIHU WR WKH DSSOLFDWLRQ QRWH 3V RV VM PLEQD \7 KQVRXUDK FKRLORHQ Y DIRNUD J
-LH-DH] Œ} o šŒ}v] •

W < ' D , E / > d



,QIRUPDWLRQ IXUQLVKHG LQ WKLV GRFXPHQW LV EHOLHYHG WR EH DFFXUDWH D
-LDQJVX -LH-LH 0LFURHOHFWURQLFV &R/WG DVVXPHV QR OLDELOLWLHV UHVXOWLQJ IURP WKH XVH ZLWKRXW FRQVLGHUDWLRQ IRU LWV FRUUHFWQHVV RU DSSOLFDELOLWLHV LQ WKLV GRFXPHQW -LDQJVX -LH-LH 0LFURHOHFWURQLFV &R/WG UHVHUYHV WKH ULJKW WR PDNH FKDQJHV LQ WKLV GRFXPHQW DW DQ\ WLPH
3URGXFWV DQG LQIRUPDWLRQ GSRUFRXPLHGQHG KDYH QR LQIUL
-LDQJVX -LH-LH DVVXPHV QR OLDELOLWLHV DULVLQJ RXW RI WKH DSSOLFDWLRQ RU XVH RI WKLV GRFXPHQW -LDQJVX -LH-LH GRHV QRW DXWKRUL]H RU ZDUUDQW DQ\ -LDQJVX -LH-LH SURGXFWV IRU XVH LQ OLIH VXSSRUW DSSOLFDWLRQV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXV
is a registered trademark of JieJie Microelectronics Co., Ltd.
Copyright © 2025 JieJie Microelectronics Co., Ltd.