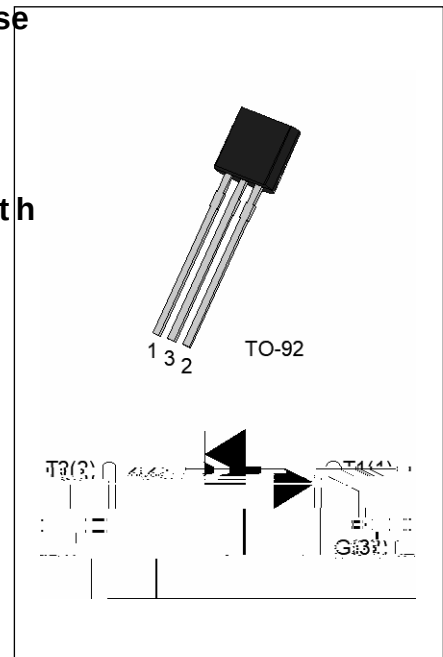




59 { /wLt £ L h b

The JST131U-600T triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as lighting regulation, induction motor starting circuits, and phase control operation in light dimmers, motor speed controllers. Complying with UL standards (File ref: E252906). Package TO-92 is RoHS compliant.



a ! Lb C9 ! £ § w9 {

6 \ P E R O	9 D O X H	8 Q L W
,7 5 0 6		
9 5 0 9 5 0		9
,* 7		P \$

! . { h [§ £ 9 a ! ¹ L a § a w ! £ L b D {

Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40-150	
2 SHUDWLQJWHKPSHULRWXUH UDQJH	M		7
5 HSHWLWLYH SHDN RII VWDWH YROWDJH	7		
5 HSHWLWLYH SHDN WHYHUVH YROWDJH	7		
506 RQ VWDWH & FXUUHQW	,7 506		
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW			
IXOO F _S F _{ON} M W			
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW	,7 60		
IXOO F _S F _{OFF} V W 7			
, W YDOXH IRU PXVLOQJ W	, W		V \$
& ULWLFDO BDWQ RWDWHH FXUUHQW	G, GW		\$ V
, h, 1 +] M 7			
3 HDN JDWH FXUUHQW W	,* 0		\$
\$YHUDJH JDWH SRZHU GLVVLSDWLRO 7			
3 HDN JDWH SRZHU	3* 0		

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

> dZ/ > , Z d Z/A25/ XQOHVV RWKHUZZLVH VSHFLILHG

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D = 12V R = 33 Ω	ALL	MAX.	5	mA
V _{GT}		ALL	MAX.	1.3	V
V _{GD}	V _D = V _{RM} T _J = 125 °C 5/ N	\$ //	0, 1		9
/	,* ;7		0 \$;		P \$
,+	,7 P \$		0 \$;		P \$
G 9 G W	99 * DWH 2 SHQ 7		0, 1		9 V
G 9 G W F	G, GW F \$ P V		7 0, 1		9 V
W _Q	,* P \$ \$, P \$ 5, P \$ 7M		7 < 3		V
W _I					

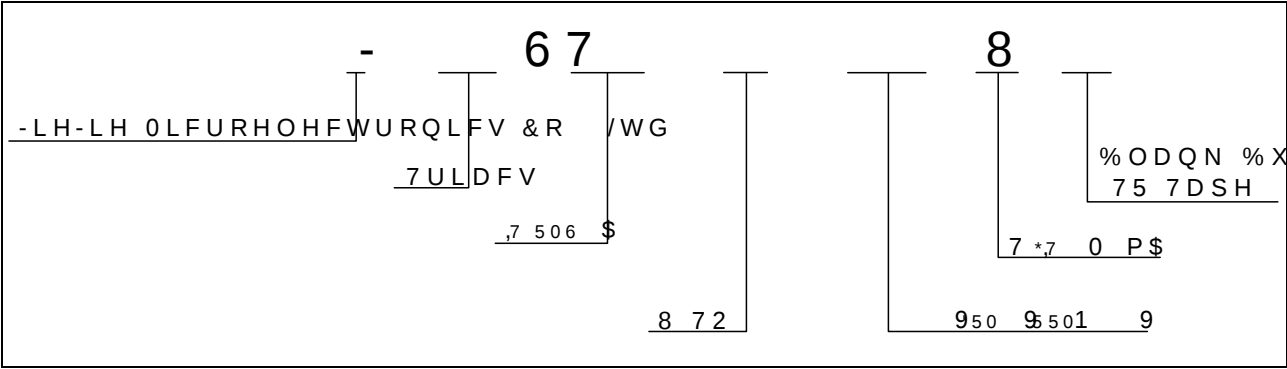
^d d/ , Z d Z/^d/ ^

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} = 1.4A t = 380 μs	T _J = 125 °C		
972	7 KUHV KROG YROWDJH	7		
5	'\QDPLF UHVLVWDQFH	7		P
,50	9 9.50 9 9550	7M		
,550		7M		

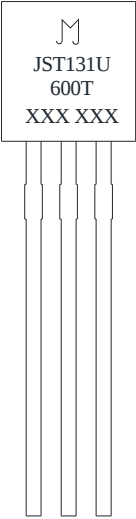
d, ZD > Z ^/^d E ^

Symbol	Parameter	Value	Unit
R _{th(j-c)}	j unction to case (AC)	60	:
5W _{K M}	DMXQFWLRQ WR DPELHQW \$ &		:

K Z Z / E ' / E & K Z D d / K E



D Z < / E '



XXX XXX
Year
Month
Production
Code

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

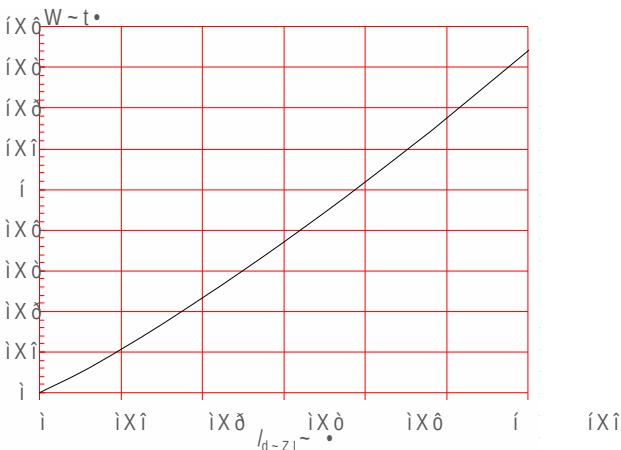


FIG.3: Surge peak on-state current versus number of cycles

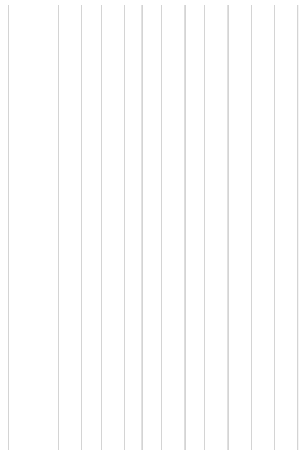


FIG.2: RMS on-state current versus case temperature

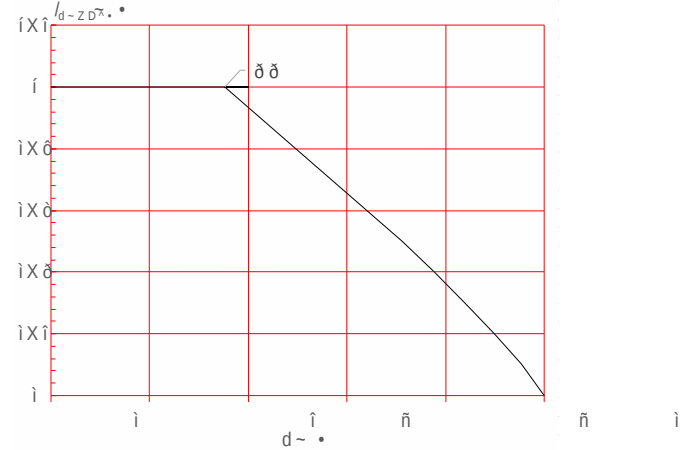
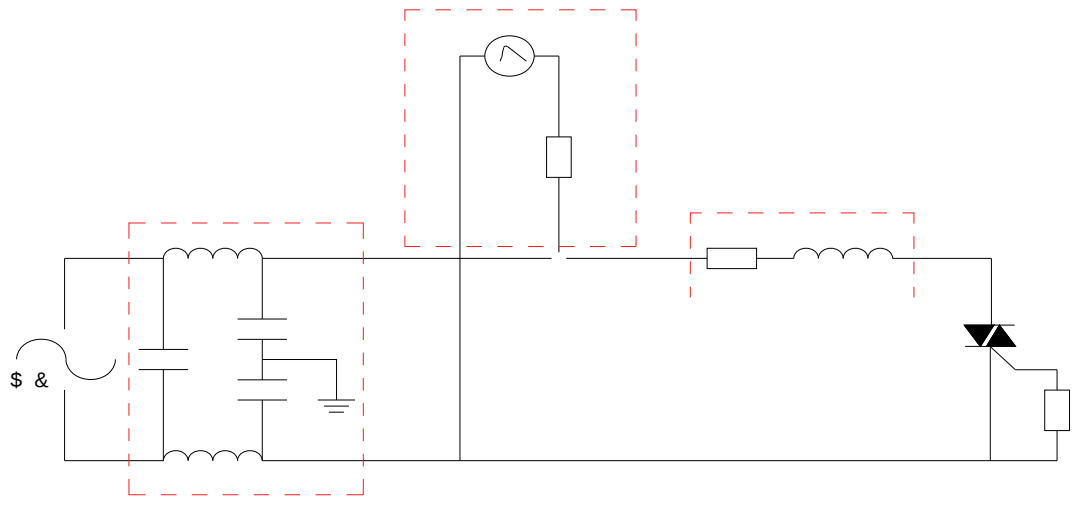
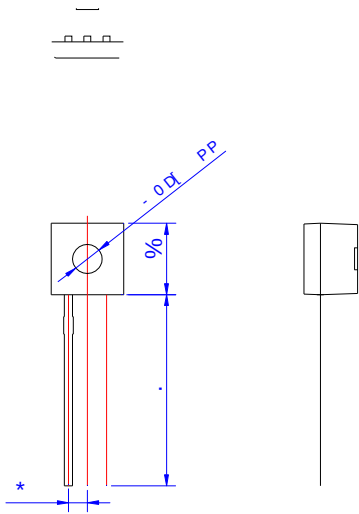


FIG.4: On-state characteristics

), * Ö7HVW FLUFXLW IRU LQGXFWLYH DQG VMDQVWUYNW O F



W < ' D , E / > d



,QIRUPDWLRQ IXUQXFNHQB ILQ WKOLVHGRHG WR EH DFFXUDWH D
 -LDQJVVX -LH-LH 0L&URRHOWHG WDVVQLFHVV QLRV UHRUS RQKHL ERQVHT
 RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQLQURPDWLRQ
 LQ WKLW GRFXPHQW LQJHXLWHKFWXWRQRWLFH DSDUW IURP V
 VLJQHG -LDQJVSOLHVLZILWRKPWKH DJUHHPHQW
 3URGXFVV DQG LQIRUPDWLRQ GRFXPHQW KDYH QR LQIULQJ
 -LDQJVVX -LH-LH DVVXPHLOQW\ UIRVSRQWIRQKHQJWHPHQW RI WH
 SDUWLHV ZKLFK PD\ XVXROHWXUFKPSWB BFWRQDQK ILQ GRFXPH
 VXSHUVHGHV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXV

 is a registered trademark of JieJie Microelectronics Co., Ltd.
 Copyright © 2025 JieJie Microelectronics Co., Ltd. All rights reserved.