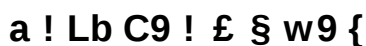




Rev.A.2.1

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, phase control operation in light dimmers, motor speed controllers. Complying with UL standards (File ref : E252906). Package TO-92 is RoHS compliant.



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Parameter		Symbol	Value	Unit
Storage junction temperature range		T_{stg}	-40-150	
2SHUDWLQJ JWHFQSHWLDWQXUH U D Q J H		T_M		7
5HSHWLWLYH SHDN RMI VWDWH YRQW DJH 7		T_{50}		
5HSHWLWLYH SHDN WHYHUVH YRQW DJH 7		T_{55}		
506 RQ VWDWH & FXUUHQW 7		I_{506}		
1RQ UHSHWLWLYH VXUJH SHDN IXOO F\FOH PN MW		$RQ VWDWH FXUUHQW$		
1RQ UHSHWLWLYH VXUJH SHDN IXOO F\FOH PN MW		$RQ VWDWH FXUUHQW$		
,W YDOXH IRU PXVLQJ W		$,W$		V\$
&ULWLFDO EDWQ RWDWHH FXUUHQW		G, GW		\$ V
3HDN JDWH FXUUHQW W		$,^*0$		\$
\$YHUDJH JDWH SRZHU GLVVLSDWLRQ 7		3^*0		
3HDN JDWH SRZHU				

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 , G W F \$ P V			7 0, 1		9 V
W _Q	,* P \$ \$, P \$ 5, P \$ 7M		7 < 3		V
W _I					

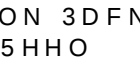
^d d/ , Z d Z/^d/ ^

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 9.50	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 \$ &		:

7



D $Z < / E'$

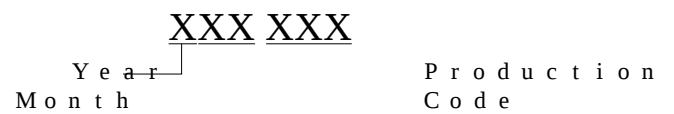


FIG.1: Maximum power dissipation versus RMS on-state current

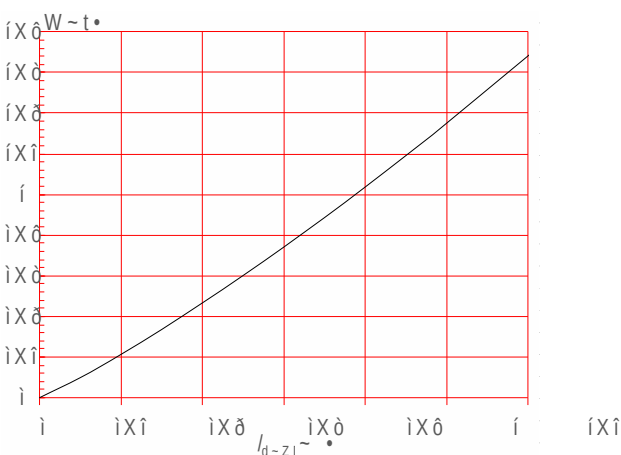


FIG.3: Surge peak on-state current versus number of cycles

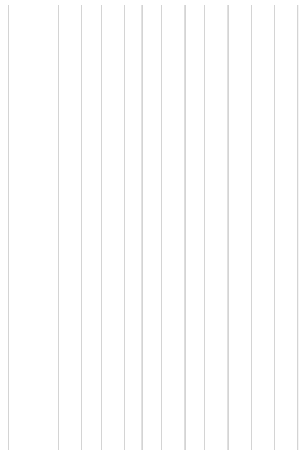


FIG.2: RMS on-state current versus case temperature

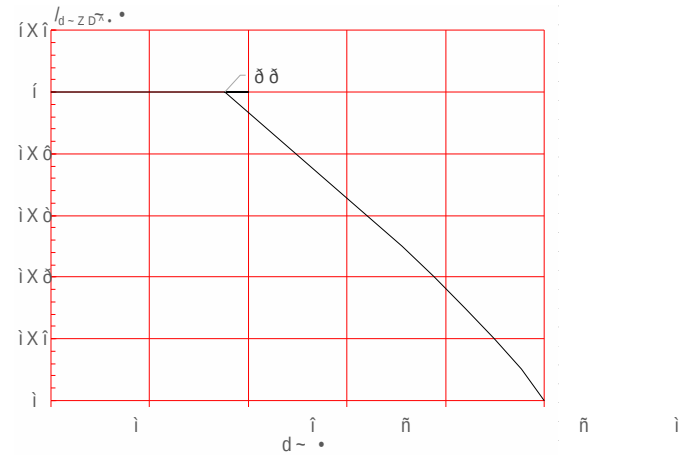
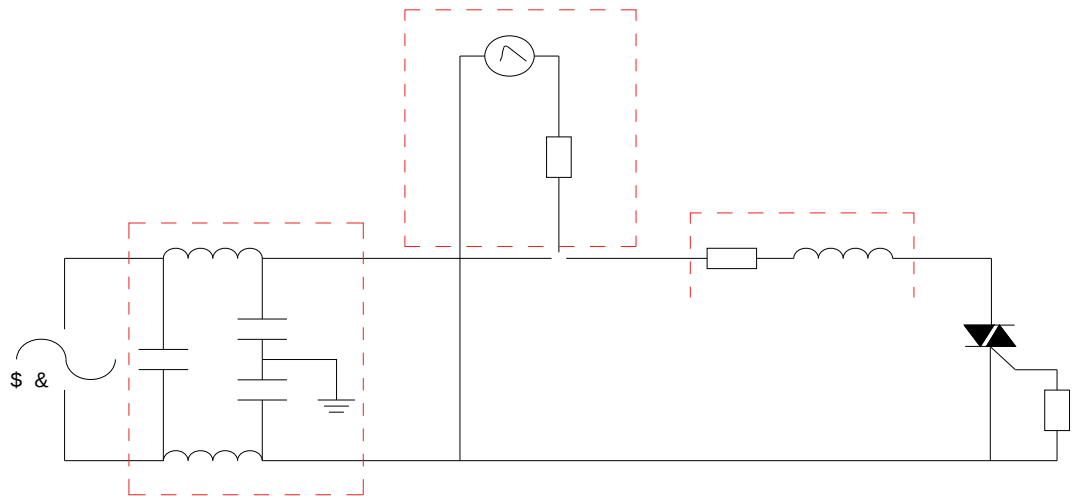
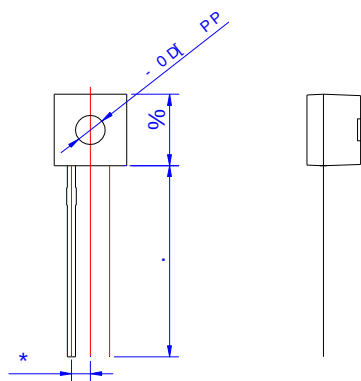


FIG.4: On-state characteristics

), * Ö7HVW FLUFXLW IRU LQGXFWLYH DQG VMDQVWUYNW OF





,QIRUPDWLRQ IXUQXFNHQB ILQ WIKOVHGRHFG WR EH DFFXUDWH D
 -LDQJVVX -LH-LH 0L&URRHOWHGF WDVVQLFHVV QLRV UHRUS RQKHL ERQVHT
 RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQLQURUPDWLRQ
 LQ WKLW GRFXPHQW LQJHXLWHLFVXWRQRWLFH DSDUW IURP V
 VLJQHG -LDQJVSOLHVLZILWRKPWKH DJUHHPHQW
 3URGXFVV DQG LQIRUPDWLRQ GRFXPHQW KDYH QR LQIULQJ
 -LDQJVVX -LH-LH DVVXPHLOQW\ UIRVSRQWIRQKHQJHLPJKWW RI WH
 SDUWLHV ZKLFK PDN XVVXPDWVXFKPSWBBDVWRQDQKILQGRFXPH
 VXSHUVHGHV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXV

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