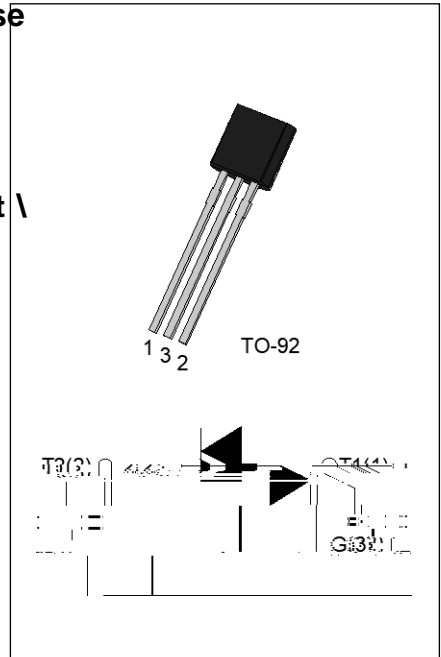




59 o/k Lt u L \ b

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



a ° Lb C9 ° u y k 9 o

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 \$

° . o \ O y u 9 a ° O E L a y a k ° u L b D o

Parameter	Symbol	Value	Unit
Storage temperature range	T_{stg}	-40-150	
2 SHUDWLQJWHKPSHULDRVQXUH UDQJH	I_M		7
5 HSHWLWLYH SHDN RMI VWDWH YRQW DJH 7	I_{TSM}		
5 HSHWLWLYH SHDN WHYHUVH YRQW DJH 7	I_{TSM}		
506 RQ VWDWH & OFXUUHQW 7	I_{TSM}	,7 5 0 6	
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW	I_{TSM}		
IXOO FS\FON MW	I_{TSM}		
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW	I_{TSM}	,7 5 0 6	
IXOO FS\FON PV W7	I_{TSM}		
, W YDOXH IRU PXVLMQJ W	I_{TSM}	, W	V \$
& ULWLFDO BDWQ RWDWHH FXUUHQW	I_{TSM}	G, GW	\$ V
; h,*7 l +]M 7	I_{TSM}		
3 HDN JDWH FXUUHQW W	I_{TSM}	,*0	\$
\$YHUDJH JDWH SRZHU GLVVLSDWLRQ 7	I_{TSM}	3*0	
3 HDN JDWH SRZHU	I_{TSM}	3*0	

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

> dZ/ > , Z d Z/125/ XQOHVV RWKHUZZLVH VSHFLILHG

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D 1 12V R 1 33	ALL	MAX.	5	mA
V _{GT}		ALL	MAX.	1.3	V
V _{GD}	V _D 1 V _{RM} T 1 125 5/ N	\$//	0, 1		9
/	,* ;7		0 \$;		P \$
,+	,7 P \$		0 \$;		P \$
G 9 G W	99 * DWH 2 6 HQ 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 \$		7 < 3		V
W _I	7M				

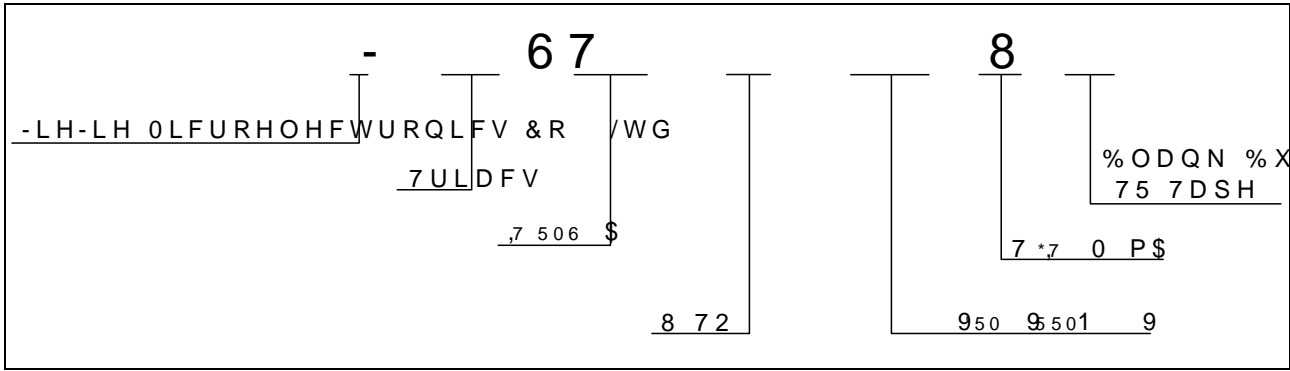
^ d d/ , Z d Z/^ d/ ^

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} 1 1.4A ±13, 0 s	125		
972	7 KUHV KROG YR O M D J H	7		
5	' \ Q D P L F U H V L V W D Q F H	7		P
;50		7M		
;550	9 9 50 9 9 550	7M		

d, Z D > Z ^/^ d E ^

Symbol	Parameter	Value	Unit
R _t \ (^-c)	^ unction to case (AC)	60	:
5W _{K M}	D M X Q F W L R Q W R D P E L H Q W \$ &		:

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



D Z</E'

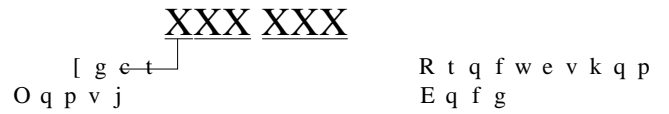
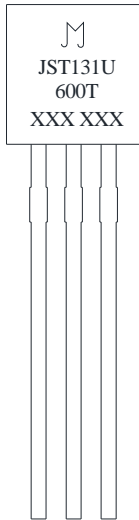


FIG.1: Maximum power dissipation versus RMS on-state current

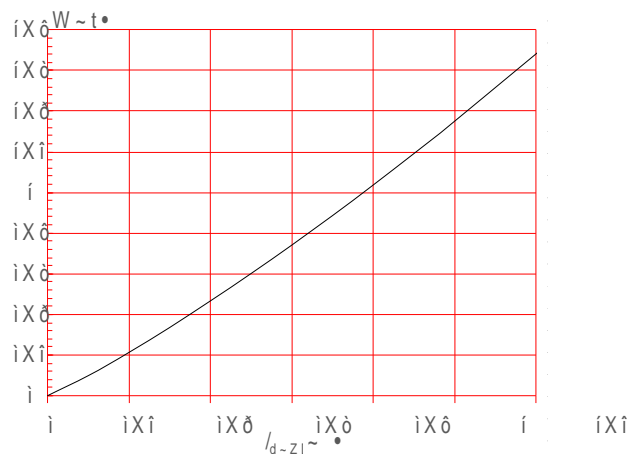


FIG.3: Surge peak on-state current versus number of Z cycles

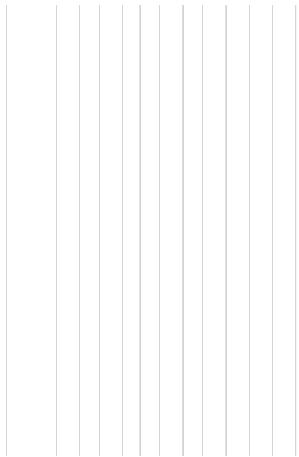


FIG.2: RMS on-state current versus case temperature

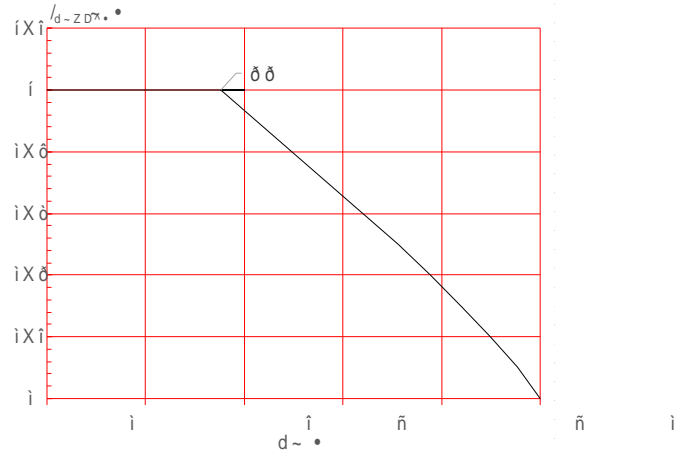
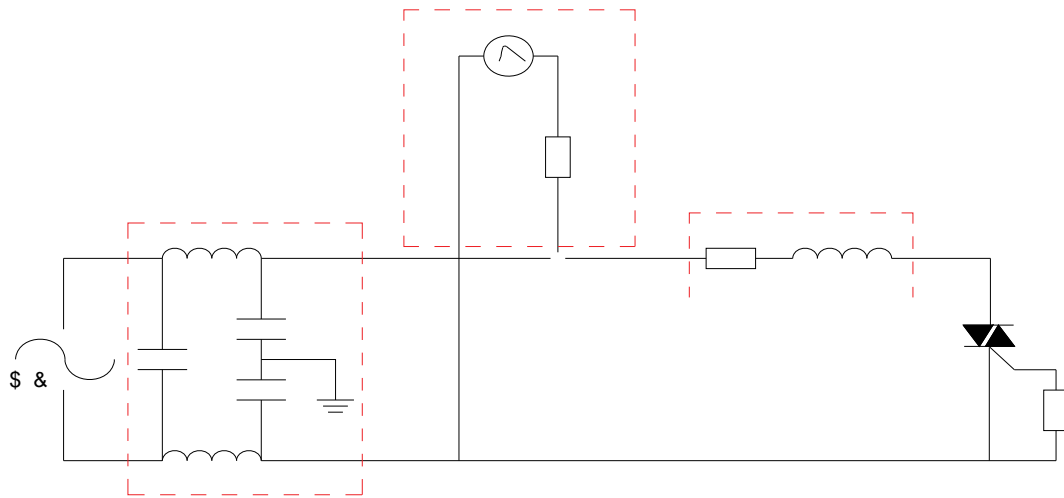
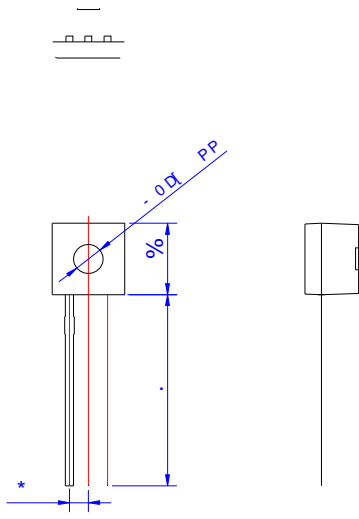


FIG.4: On-state characteristics


), * Ö7HVW FLUFXLW IRU LQGXFWLYH DQG UMVQVWUYNW OF



W < ' D , E / > d



,QIRUPDWLRQ IXUQXFKHQW LQ WKOLHGRHG WR EH DFFXUDWH D
 -LDQJVVX -LH-LH 0L&URRHOWHG WDJRQXLFHV CLR VU HRUS RQKHL ERQVHT
 RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQLQURPDWLRQ
 LQ WKLV GRFXPHQW LQJHXZLWHFRXWRQRWLFH DSDUW IURP V
 VLJQH G -LDQJVSOLHVLZLFRKPKH DJUHHPHQW
 3URGXFWV DQG LQIRUPDWLRQ GRFXPHQW KDYH QR LQIULQJ
 -LDQJVVX -LH-LH DVVXPHLOQRUIRUSRQWIRQKHQJWHJKQW RI WH
 SDUWLHV ZKLFK PDN XVXROIW XFKPSWB B WWRQD QK ILQ GRFXPH
 VXSHUVHGHV DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXV

 k u c t g i k u v g t g f c v p t i c u f w g J k g J t k m g q O h k J k t q g n N g v e f v 0 t q p k e u E c
 E q r { t k i j v Í 4 0 4 7 J 0 k p i q w n k g g e J k g q p k k u E v q 0 t g N w g f 0 x C g n f n 0