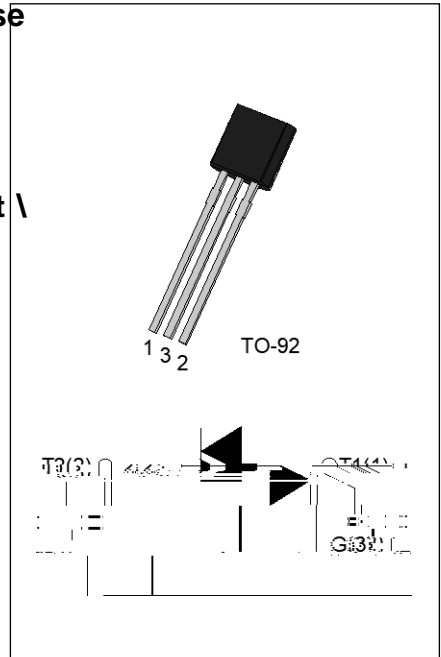




59 o/k Lt u L \ b

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	M		7
5 HSHWLWLYH SHDN RMI VWDWH YRQW DJH	7		
5 HSHWLWLYH SHDN WHYHUVH YRQW DJH	7		
506 RQ VWDWH & OFXUUHQW	,7 506		
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW			
IXOO F _s F ₀ W			\$
1 RQ UHSHWLWLYH VXUJH SHDN RQ VWDWH FXUUHQW	,7 9 0		\$
IXOO F _s F ₀ W			
, W YDOXH IRU PXVLMQJ W	, W		V \$
& ULWLFDO BDWQ RWDWHH FXUUHQW	G, GW		\$ V
; h,*7 l +]M 7			
3 HDN JDWH FXUUHQW W	,*0		\$
\$YHUDJH JDWH SRZHU GLVVLSDWLRQ	9 7		
3 HDN JDWH SRZHU	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				

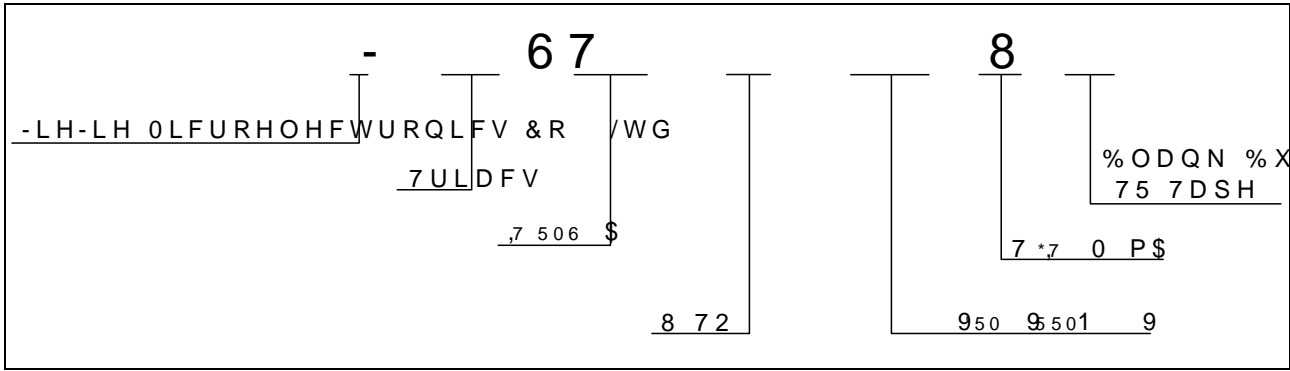
^ d d/ , Z d Z/^d/ ^

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'

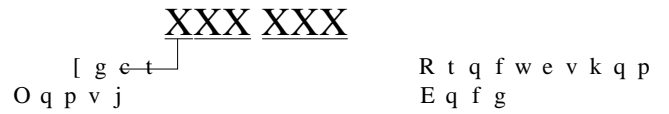
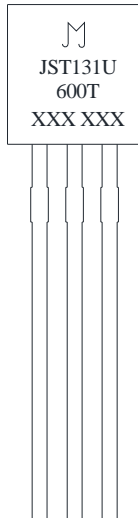


FIG.1: Maximum power dissipation versus RMS on-state current

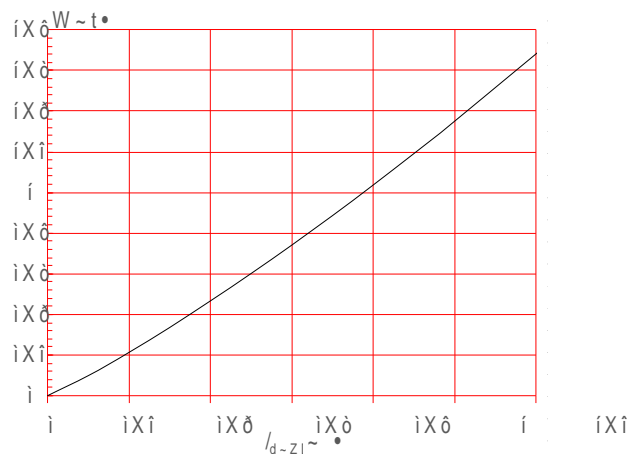


FIG.3: Surge peak on-state current versus number of Z cycles

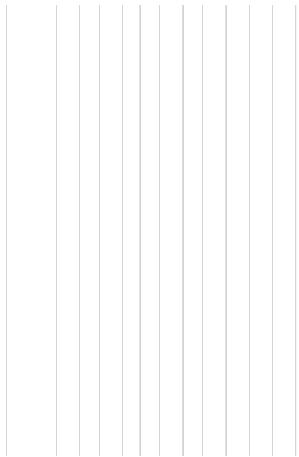


FIG.2: RMS on-state current versus case temperature

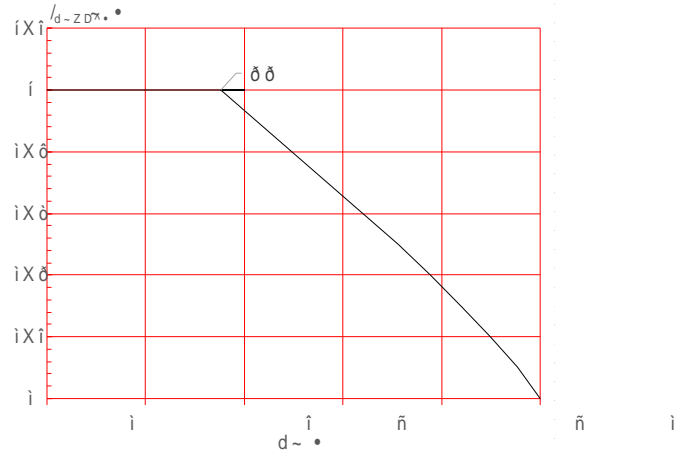
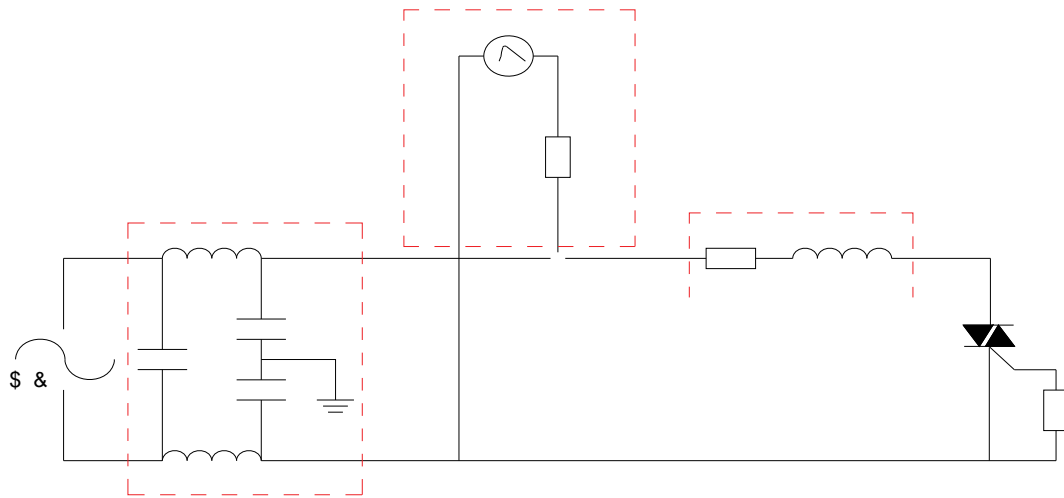
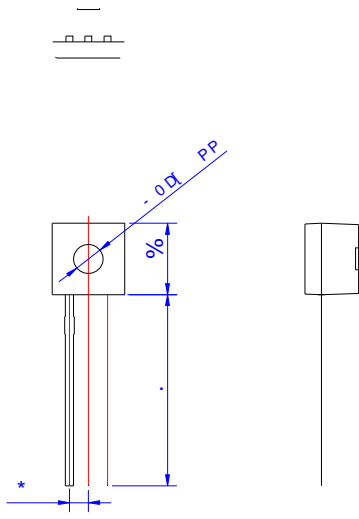


FIG.4: On-state characteristics


), * Ö7HVW FLUFXLW IRU LQGXFWLYH DQG UMVQVWUYNW OF



W < ' D , E / > d



,QIRUPDWLRQ IXUQXFKHQW LQ WKOLHGRHG WR EH DFFXUDWH D
 -LDQJVVX -LH-LH OLURRHOMHG WDJRQXLFHV CLR VU HRUS RQKHL ERQVHT
 RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQLQURPDWLRQ
 LQ WKLV GRFXPHQW LQJHXZLWHFRXWRQRWLFH DSDUW IURP V
 VLJQH G -LDQJVSOLHVLZILFRPWKH DJUHHPHQW
 3URGXFWV DQG LQIRURDWKLRQ GRFXPHQW KDYH QR LQIULQJ
 -LDQJVVX -LH-LH DVVXPHLOQRUIRUSRQWIRQKHQJWHJKWWRIWH
 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 q u 0 t g N w g f 0 x C g n f n 0