

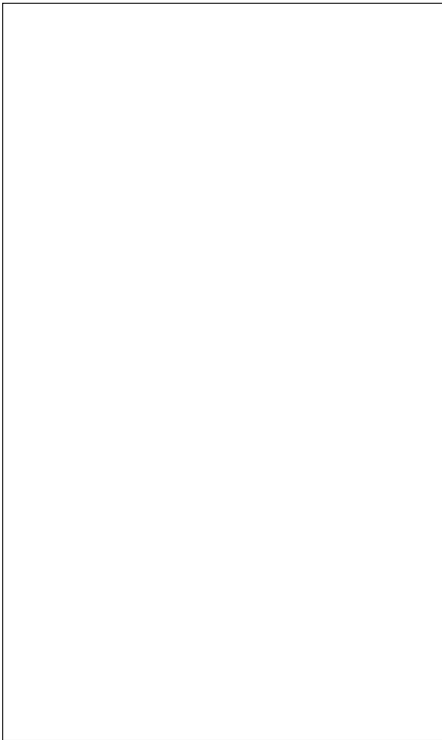


ACJT610-10K 6A TRIAC

Rev A.1.1

DESCRIPTION:

The ACJT610-10K triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. The ACJT610-10K embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-252 is RoHS compliant.



MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40-150	
Operating junction temperature range	T _j	-40-125	

Repetitive peak off-state voltage (T_j=25 °C) 125

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8)	V_{pp}	3.5	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Conditions	Qian	Value	Unit	
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	10	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$	- -	MIN.		

ORDERING INFORMATION

AC	J	T	6	10	-10	K	-/
AC switch		Triacs					Blank:Tube -TR:Tape & Reel
JieJie Microelectronics Co., Ltd.		$I_T(RMS):6A$				$K:TO-252$	
		10: $I_{GT1-3} 10mA$			10: $V_{DRM} / V_{RRM} 1000V$		

MARKING

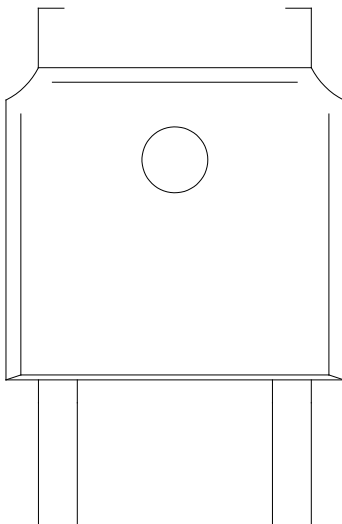


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

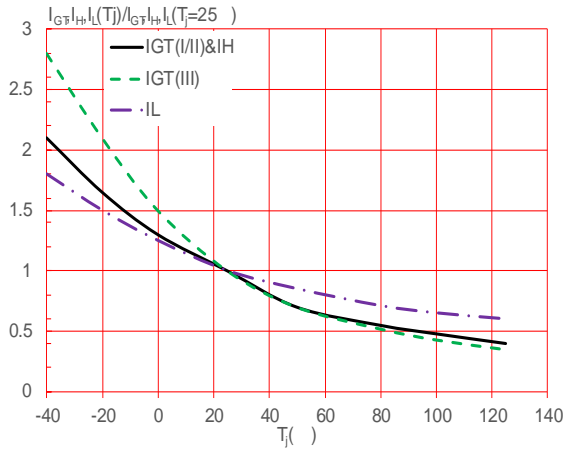
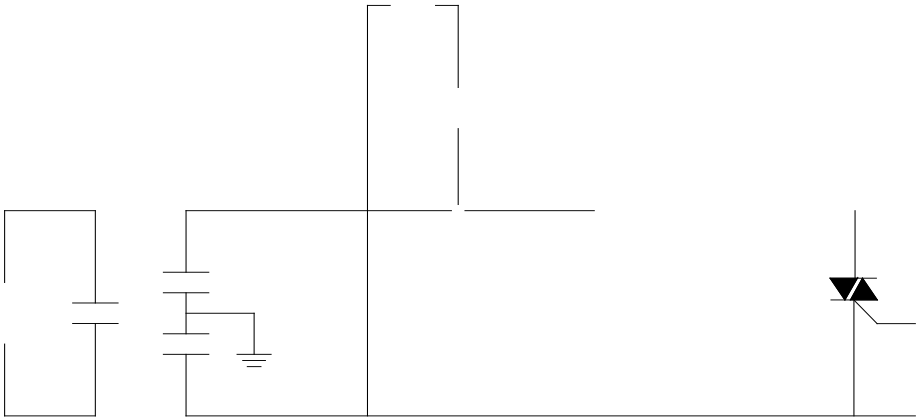
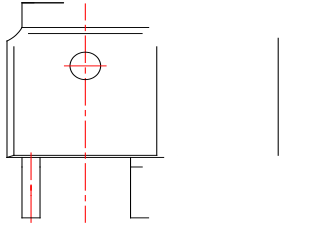


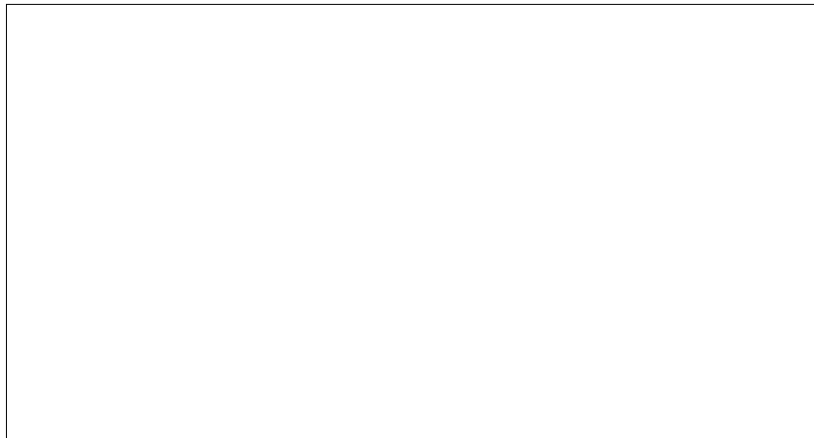
FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.10		2.50	0.083		0.098
A2	0		0.15	0		0.006
B	0.66		0.86	0.026		0.034
B2	5.18		5.48	0.202		0.216
C	0.40		0.60	0.016		0.024
C2	0.44		0.58	0.017		0.023
D	5.90		6.30	0.232		0.248
D1						
E	6.40		6.80	0.252		0.268
E1	4.63			0.182		
G	4.47		4.67	0.176		0.184
G1	2.18		2.38	0.086		0.094
L	1.09		1.21	0.043		0.048
L2	1.35		1.65	0.053		0.065



DELIVERY MODE

