

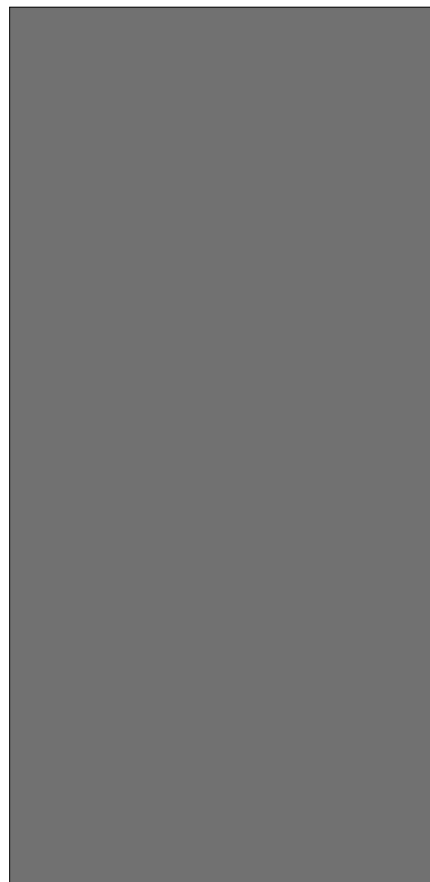


ACJT1235-10F 12A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT1235-10F 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 ACJT1235-10F embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. By using an external plastic package, ACJT1235-10F provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F 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 ($T_j=25^\circ\text{C}$)	V_{DRM}	1000	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	1000	V
RMS on-state current ($T_C \leq 86^\circ\text{C}$)	$I_{T(RMS)}$	12	A
Non repetitive surge peak on-state current (full cycle , $t_p=20\text{ms}$, $T_j=25^\circ\text{C}$)	I_{TSM}	120	A



Average gate power dissipation ($T_j=125\text{ }^{\circ}\text{C}$)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25\text{ }^{\circ}\text{C}$; non-repetitive, off-state; FIG. 7)	V_{pp}	5	kV

ELECTRICAL CHARACTERISTICS ($T_j=25\text{ }^{\circ}\text{C}$ unless otherwise specified)

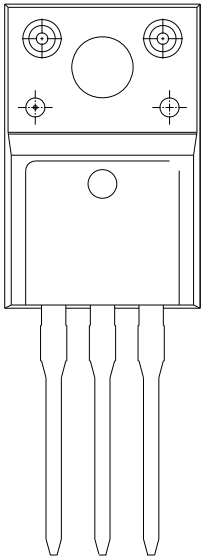
Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V\ R_L=33\Omega$	- -	MAX.	35	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}\ T_j=125\text{ }^{\circ}\text{C}$ $R_L=3.3k\Omega$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	50	mA



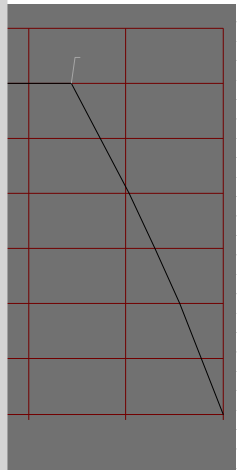
ORDERING INFORMATION

AC	J	T	12	35	-10	F
AC switch		Triacs				F:TO-220F(Ins)
JieJie Microelectronics Co.,Ltd.		IT(RMS):12A				
		35: IGT1-3 ≤ 35mA				
					10:VDRM /VRRM ≥ 1000V	

MARKING



urrent versus case



eristics



FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



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