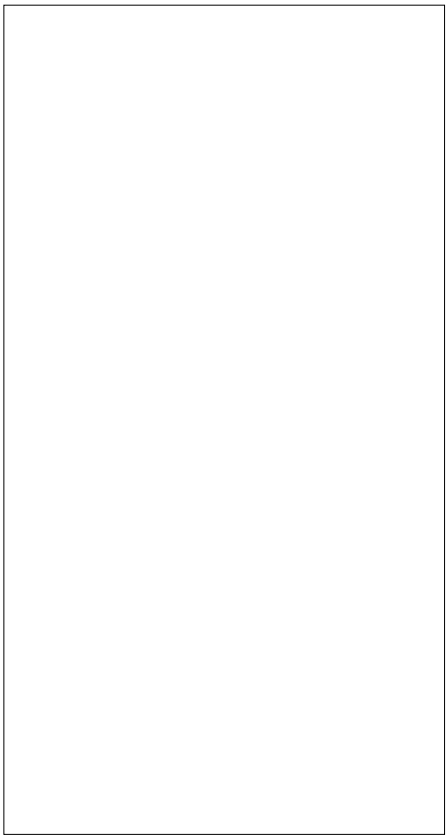
ACJT1010-10F 10A TRIAC

Rev.A.1.1

The ACJT1010-10F 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 ACJT1010-10F 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, ACJT1010-10F provides a rated insulation voltage of 2000 VRMS. Package TO-220F is RoHS compliant.



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)	V_{DRM}	1000	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1000	V
RMS on-state current ($T_C \leq$ 92)	$I_{T(RMS)}$	10	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	100	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		110	
I^2t value for fusing (t_p=10ms , T			

A j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W
Peak pulse Ę oltage (T_j=25 ; nf-stae;FIG.7)	V_{pp}	4.5	kV

(T_j=25 unless therwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	10	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	V_D =V_{DRM} T_j =125 R_L =3.3kΩ	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}		MAX.	35	mA
dV/dt	V -670V Gate Open T =125		MIN.	300	V/μs
(dI/dt)c	(dV/dt)c=10V/μs, TE Ş ɖ Ţ ɖ Ä				

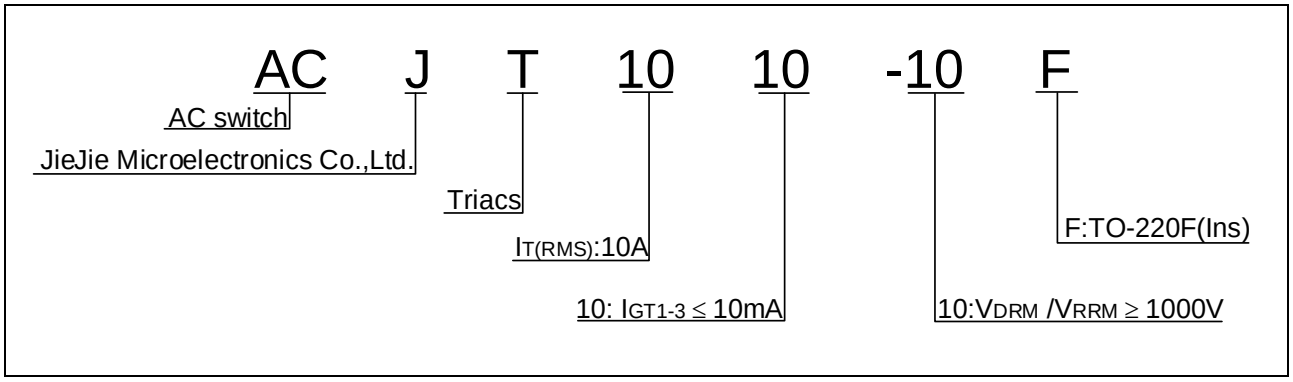

AC J T 10 10 -10 F
AC switch
JieJie Microelectronics Co.,Ltd.
Triacs
IT(RMS):10A
10: IGT1-3 ≤ 10mA
10:VDRM /VRRM ≥ 1000V
F:TO-220F(Ins)

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

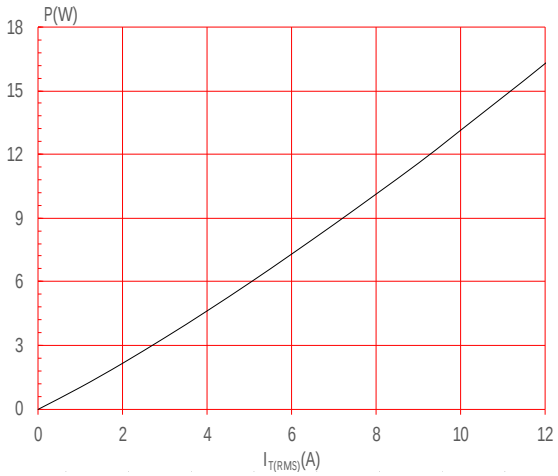


FIG.2: RMS on-state current versus case temperature

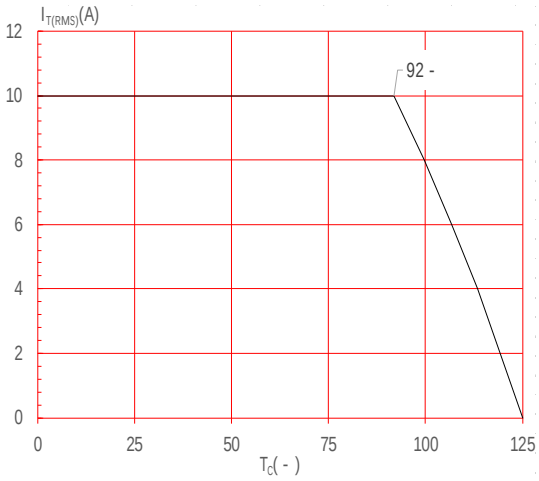


FIG.3: Surge peak on-state current versus number of cycles

FIG.4: On-state characteristics

Order code	Voltage V_{DRM}/V_{RRM} (V)	

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