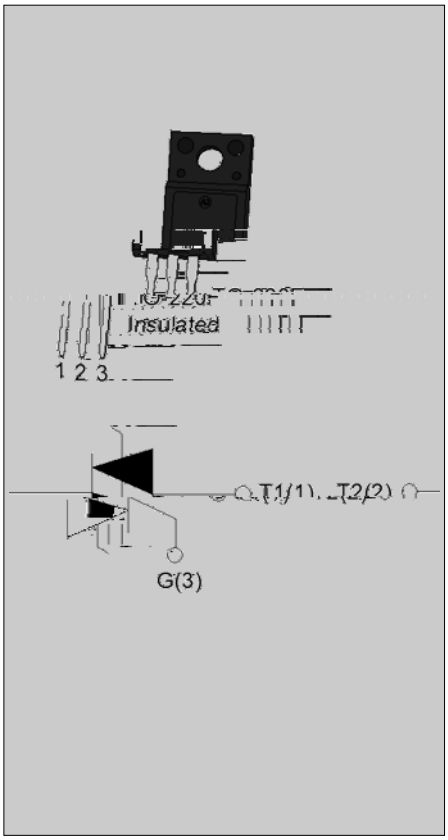
ACJT1035-10F 10A TRIAC

Rev.A.1.1

The ACJT1035-10F 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 ACJT1035-10F 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, ACJT1035-10F provides a rated insulation voltage of 2000 VRMS. Package TO-220F is RoHS compliant.



Symbol	Value	Unit
$I_{T(RMS)}$	10	A
V_{DRM} /V_{RRM}	1000	V
I_{GT} / /	35/35/35	mA

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 092)	$I_{T(RMS)}$	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_j=25)	I 2t	50	A^2s
Critical rate of rise of on-state current (I_G=2 hI GT , f=100Hz , T_j=125)	dI/dt	100	A/µs
Peak gate current (t_p=20µs , T_j=125)	I GM	4	A

Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	4.5	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	35	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.	50	mA
				70	
I_H	I_T =500mA		MAX.	50	mA
dV/dt	V_D=670V Gate Open T_j =125		MIN.	800	V/μs
(dI/dt)c	(dV/dt)c=20V/μs, T				

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- AC: AC switch
- J: JieJie Microelectronics Co.,Ltd.
- T: Triacs
- 10: $I_{T(RMS)}$:10A
- 35: I_{GT1-3} 0 35mA
- -10: V_{DRM} /V_{RRM} 1 1000V
- F: F:TO-220F(Ins)

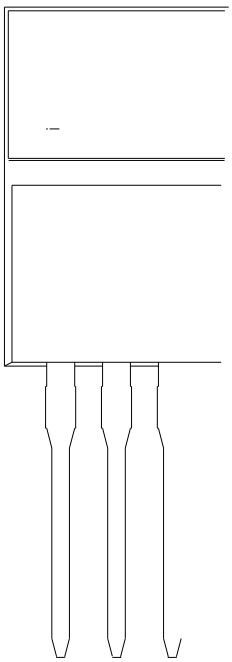

FIG.1: Maximum power dissipation versus RMS on-state current

FIG.2: RMS on-state current versus case temperature ± ¢ a ó ± ú ¢ Ƨ Ґ н p ł ű è LJ

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT1035-10F	1000	35	TO-220F(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.13, 2023	A.1.0	Last updated
Oct.14, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA