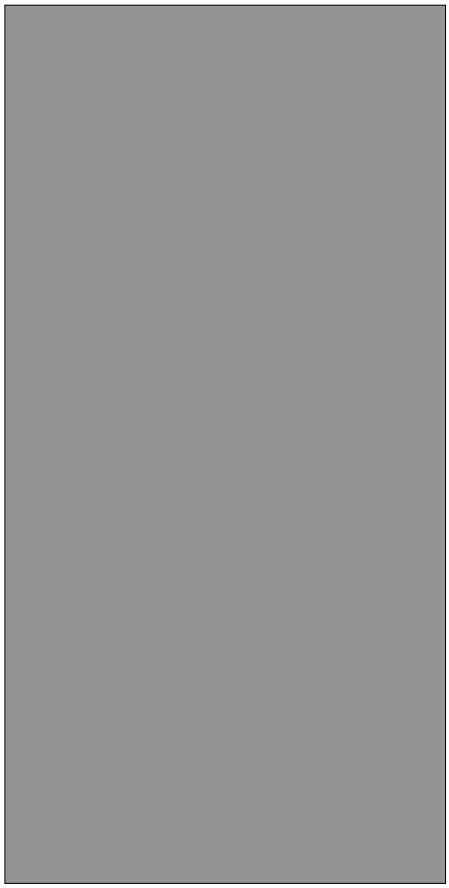
ACJT04F-1000CW 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT04F-1000CW 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 ACJT04F-1000CW 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, ACJT04F-1000CW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	Ņ
Operating junction temperature range	T_j	-40-125	Ņ
Repetitive peak off-state voltage (T_j=25Ņ)	V_{DRM}	1000	V
Repetitive peak reverse voltage (T_j=25Ņ)	V_{RRM}	1000	V
RMS on-state current (T_C Ů 104Ņ)	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25Ņ)	I_{TSM}	40	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25Ņ)		44	
I^2t value for fusing (t_p=10ms , T_j=25Ņ)	I^2t	8	A^2s
Critical rate of rise of on-state current (I_G=2 ¦ I_{GT} , f=100Hz , T_j=125Ņ)	dI/dt	100	A/μs
Peak gate current (t_p=20μs , T_j=125Ņ)	I_{GM}	4	A

Average gate power dissipation (T_j=125℃)	P

ORDERING INFORMATION

AC J T 04 F -1000 CW

- AC: AC switch
- J: JieJie Microelectronics Co., Ltd.
- T: Triacs
- 04: IT(RMS):4A
- F: F:TO-220F(Ins)
- 1000: 1000:VDRM /VRRM ů 1000V
- CW: CW: IGT1-3 Ů 35mA

MARKING

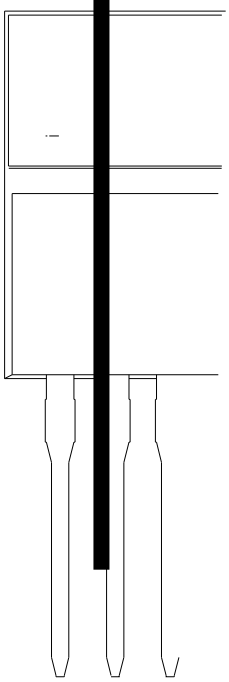


FIG.1: Maximum power dissipation versus RMS on-state current

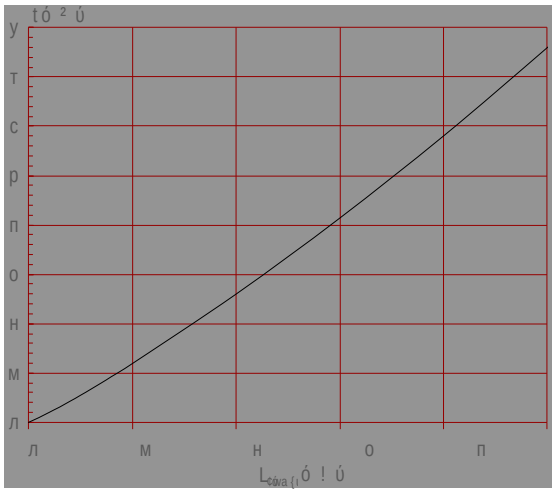


FIG.2: RMS on-state current versus case temperature

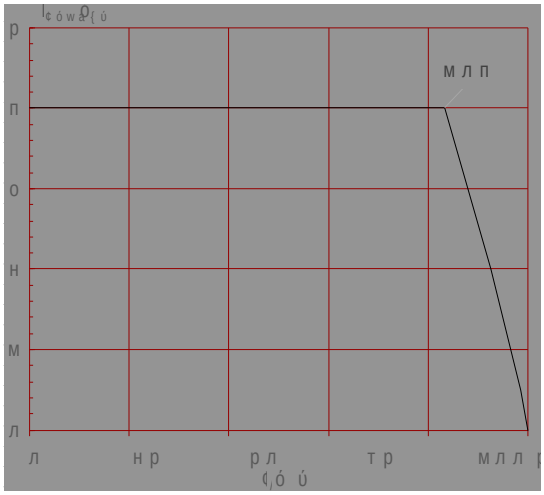


FIG.3: Surge peak on-state current versus number of cycles

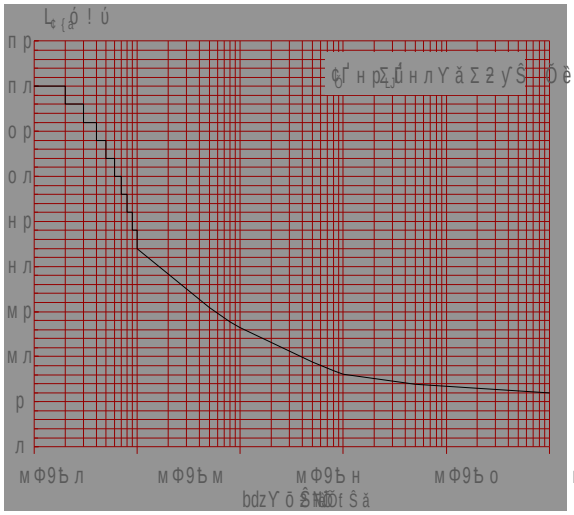


FIG.4: On-state characteristics

ACJT04F-1000CW