

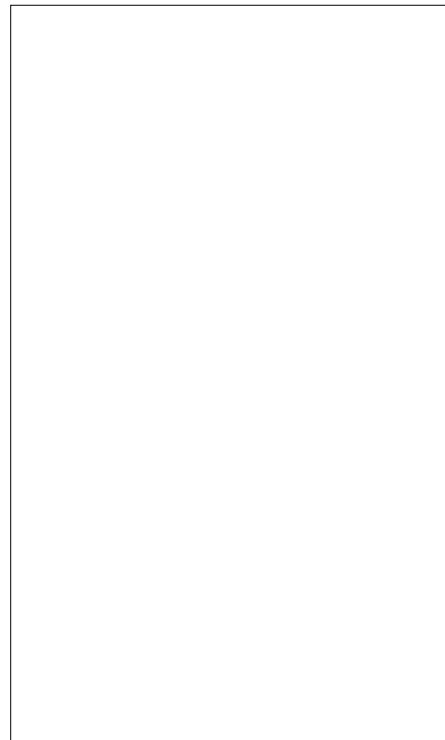


ACJT210-10W 2A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT210-10W 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 ACJT210-10W embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package SOT-223-2L 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}

$\geq 100V$ /P <<MCID 26 >>9DC 0.004 Tc -0.004

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8)	V_{pp}	4.5	kV
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ELECTRICAL CHARACTERISTICS ($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	10	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k\Omega$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	25	mA
				35	
I_H	$I_T=100mA$		MAX.	15	mA

dV/dt V 35dDC 1.65 0 4 0 0 8.04d ()Tj EMC /PMC /P <</(6748 re f 11.

ORDERING INFORMATION

AC	J	T	2	10	-10	W
AC switch		Triacs				
JieJie Microelectronics Co., Ltd.		IT(RMS):2A				W:SOT-223-2L
		10: IGT1-3 ≤ 10mA			10:VDRM /VRRM ≥ 1000V	

MARKING

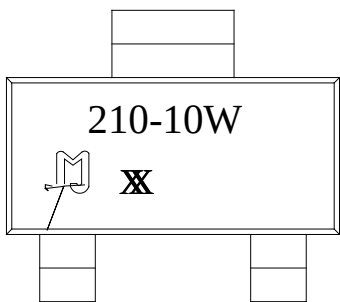


FIG.1: Maximum power dissipation versus RMS on-state current

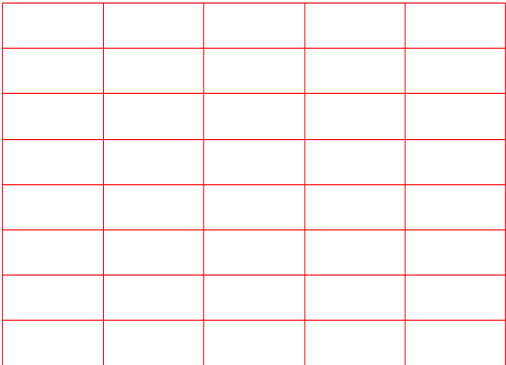


FIG.2: RMS on-state current versus case temperature

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



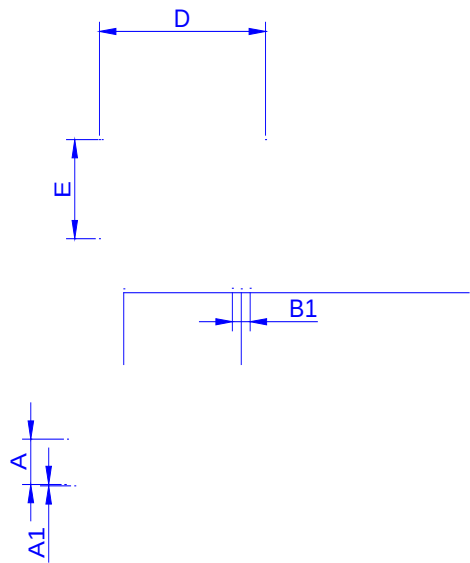
ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT210-10W	1000	10	SOT-223-2L	4,000	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.24, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



DELIVERY MODE

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
W						
E						
F						
D0						
D0 F .I A00-2127.3 (e)-.d [(l)-054 f.)IA09-2127.3 (e)-.d [(l						
-f	.	f	.	f	.	E

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