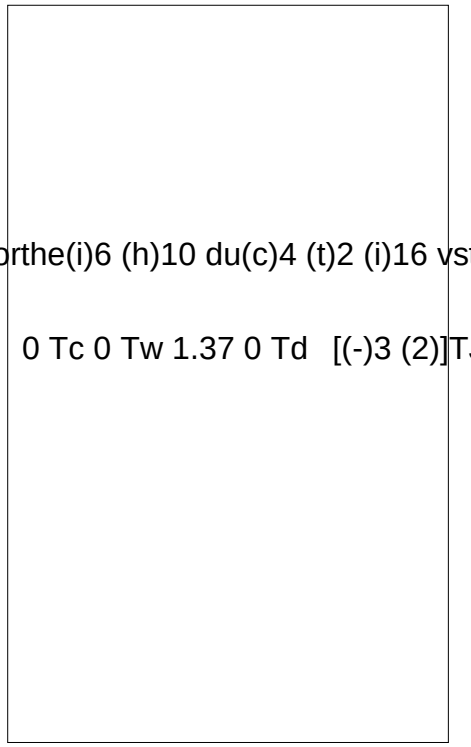
ACJT1210-10E 12A TRIAC

Rev.A.1.0

DESCRIPTION:

The ACJT1210-10E 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 ACJT1210-10E



das T srcttorthe(i)6 (h)10 du(c)4 (t)2 (i)16 vst-

energy such as those cribed in the IEC 61000-4-5

standards. Package()]TJ -0.021 Tc 0.021 Tw 4.15 0 Td (TO)Tj 0 Tc 0 Tw 1.37 0 Td [(-)3 (2)]TJ 0.004

MAIN FEATURES

AB2SOLUTE MAXIMUM RATING2S

Parameter	Symbol	Va2lue	Un2it
Stage(j)6 (unc)14 (t)2 (i)6 (on)10 (t)2 (e)10 (m)-3T(p)10 (er)7 (at)14 (ure)	j	-40-125	ne range
Repetitive peak off-state voltage(()7 (T)]TJ 0 Tc 0 Tw 8.04 0 0 8.04 248.04 306.84 Tm (j)Tj -0.004			
	I	120 132	A
I t()-10 (v)14 (al)6 (ue f)-8 (or)7 (fusing()-10 (()7 (t)]TJ 0 Tc 0 Tw 8.04 0 0 8.04 168.6 173.76 Tm (	j=25		s

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

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise 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.	25	mA
				30	
I_H	I_T =500mA		MAX.	20	mA
dV/dt	V_D=670V Gate Open T_j =125		MIN.	300	V/μs
(dI/dt)c	(dV/dt)c=10V/μs, T_j=125		MIN.	3	A/ms
t_{on}	I_G=20mA I_A=200mA I_R=20mA T_j=25		TYP.	4	μs
t_{off}				50	
V_{CL}	I_{CL}=0.1mA t_p=1ms		MIN.	1050	V

STATIC CHARACTERISTICS

Symbol	Parameter	Value(MAX.)	Unit
V_{TM}	I_{TM} =17A t_p=380μs	1.45	V
V_{TO}	Threshold voltage	1.4	V

ORDERING INFORMATION

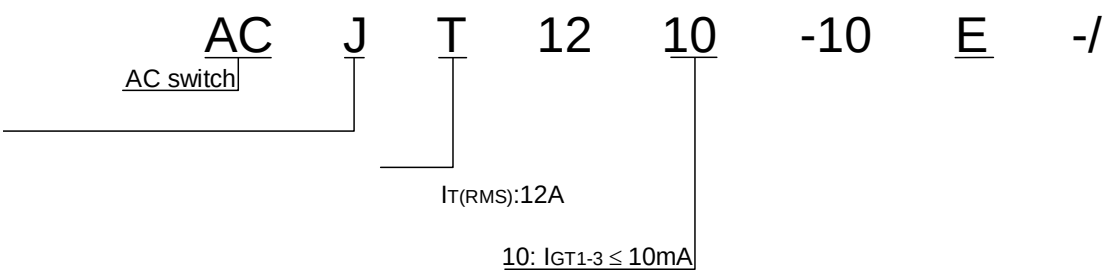


FIG.1 Maximum power dissipation versus RMS on-state current

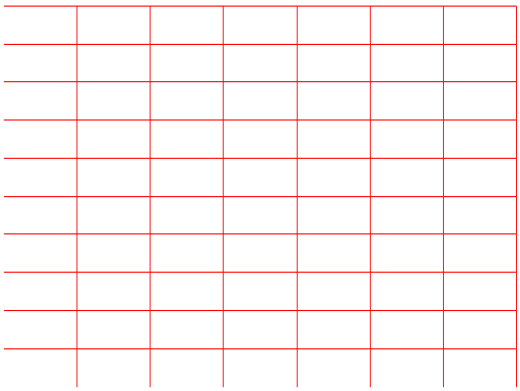
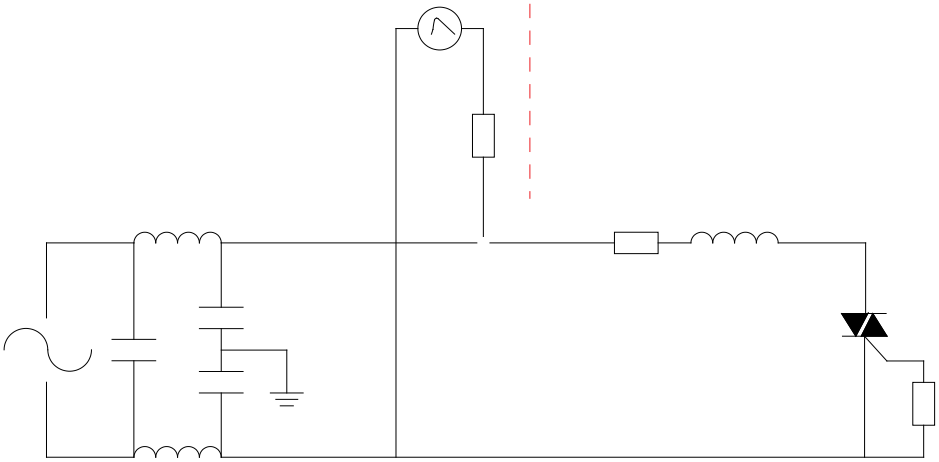


FIG.2: RMS on-state current versus case temperature

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

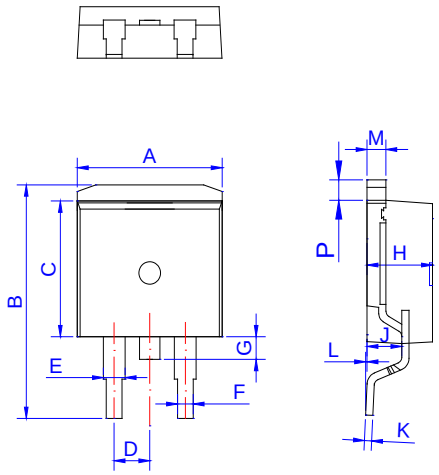


ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT1210-10E	1000	10	TO-263	50	Tube
ACJT1210-10E-TR				800	Tape & Reel

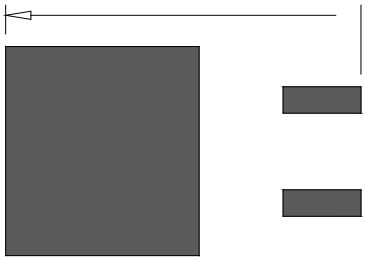
A

PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.40		9.60	0.37		0.378
D	2.40		2.70	0.094		0.106
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033
G	1.00		1.50	0.039		0.059
H	4.40		4.70	0.173		0.185
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0	0.10	0.25	0	0.004	0.010
M	1.25		1.35	0.049		0.053
P	1.20		1.50	0.047		0.059

FOOTPRINT-TO-263 (dimensions in mm)



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it. Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.
Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information. This document super(h i)6 (n)1his