

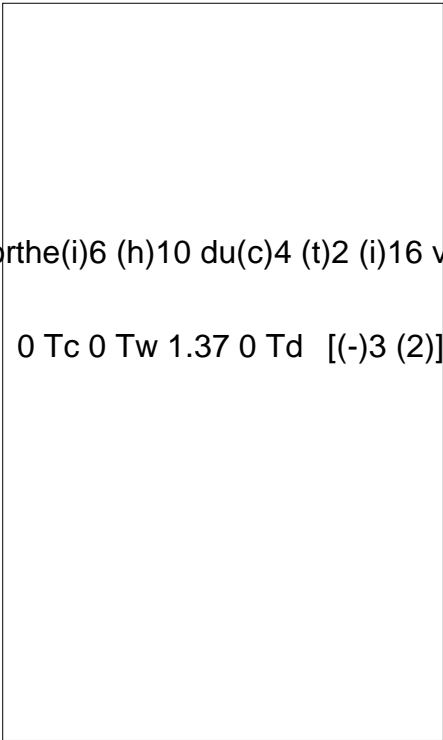


ACJT1210-10E 12A TRIAC

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



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

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Stage(j)6 (unc)14 (t)2 (i)6 (on )10 (t)2 (e)10 (m)-3T(p)10 (er)7 (at)140 (15)7 ne range	j	-40-125	
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			

		120	A
		132	
I t(-)10 (v)14 (al)6 (ue f)-8 (or)7=25 using(-)10 (()7 (t)]Tj 0 Tc 0 Tw 8.04 0 0 8.04 168.6s173.76 Tm (			

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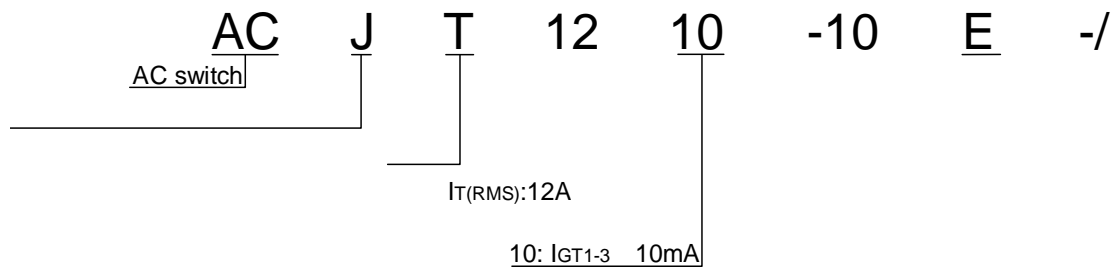
**ELECTRICAL CHARACTERISTICS** ( $T_j=25$  unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
$I_{GT}$	$V_D=12V$ $R_L=33$	- -	MAX.	10	mA
$V_{GT}$		- -	MAX.	1	V
$V_{GD}$	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3K$	- -	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/ $\mu s$
$(dI/dt)_c$	$(dV/dt)_c=10V/\mu s$ , $T_j=125$		MIN.	3	A/ms
$t_{on}$	$I_G=20mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		TYP.	4	$\mu s$
$t_{off}$				50	
$V_{CL}$	$I_{CL}=0.1mA$ $t_p=1ms$		MIN.	1050	V

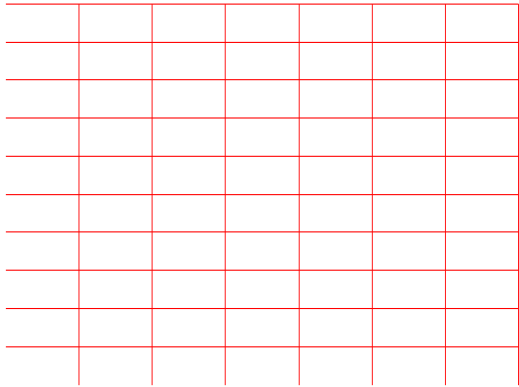
**STATIC CHARACTERISTICS**

Symbol	Parameter		Value(MAX.)	Unit
$V_{TM}$	$I_{TM}=17A$ $t_p=380\mu s$	$T_j=25$	1.45	V
$V_{TO}$	Threshold voltage	$T_j$		

ORDERING INFORMATION



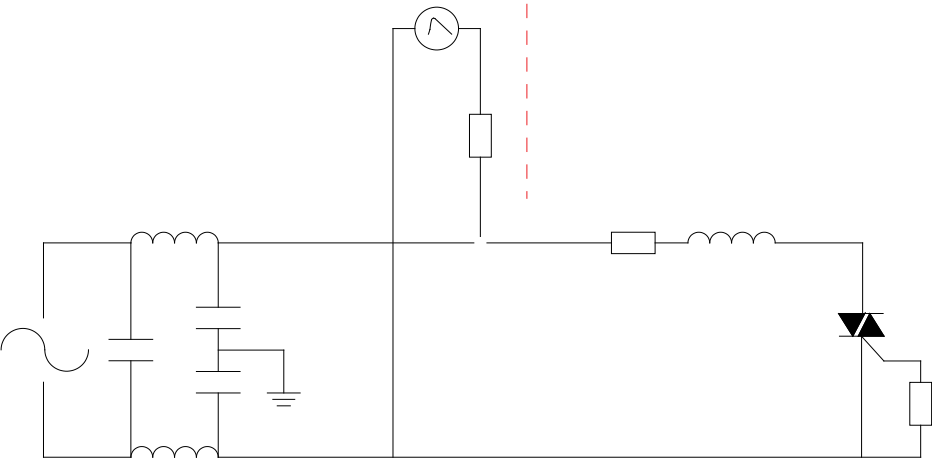
**FIG.1** Maximum power dissipation versus RMS on-state current



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



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

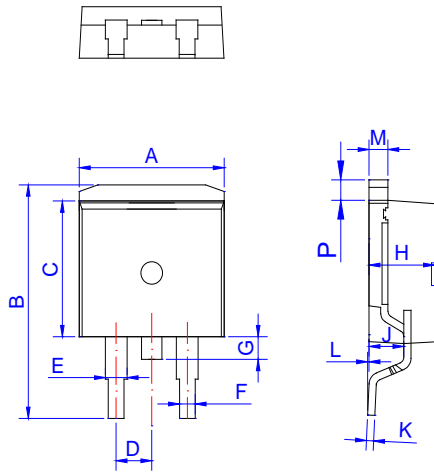


**ORDERING INFORMATION**

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

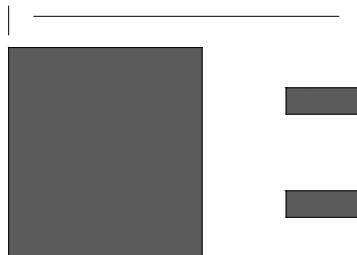
**A**

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)





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