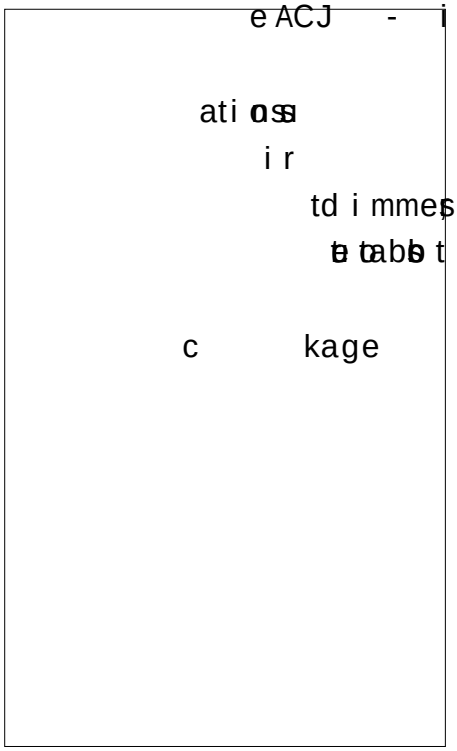
ACJT110-8V 1A TRIAC

Rev.A.1.1

DESCRIPTION:

T T110 ti a h c e ACJ - i s i t a b l e
AC sw t c
ap i c ati o s s
mo ti ng c i r
l i g h T110 t d i mme s mo p e d
embeds a TVS s c o t o t a b t
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s tandards Pa SOT-223 i s Ro HS c . c kage -



MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Sto age j n c	T_{stg}	40 150	ti o temperat e ange
Op ati ng j n	c T_j	40 125	ti o temperat e ange

Peak pulse voltage (TJ=25 ; non repetitive, one cycle; 8	VPP)	3.5	kV

ELECTRICAL CHARACTERISTICS (TJ=25 unless otherwise

Symbol	Test Condition	Quadrant	Value		Unit
IGT	VD=12V RL=33Ω		MAX.	10	mA
VGT			MAX.	1	V
VGD	VD=VDRM TJ=125 RL=3.3kΩ		MIN.	0.2	V
IL	IG=1.2IGT		MAX.	20	mA
				30	
IH	IT=100mA		MAX.	20	mA
dV/dt	VD=540V Gate Open TJ=125		MIN.	700	V/μs
(dI/dt)c	(dV/dt)c=10V/μs, TJ=125		MIN.	1.2	A/ms
tgd	IG=20mA IA=200mA IR=20mA TJ=25		TYP.	2.5	μs
tq				25	
VCL	ICL=0.1mA tp=1ms		MIN.	850	V

DYNAMIC CHARACTERISTICS

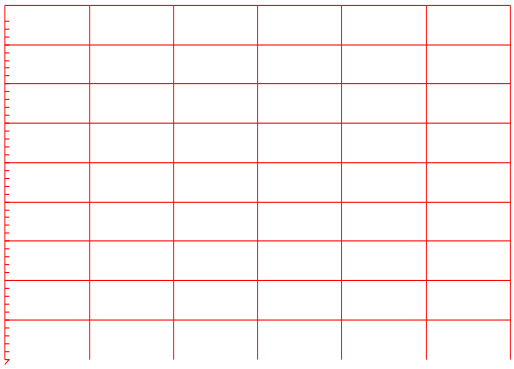
Symbol	Parameter		Value(MAX.)	Unit
VTM	ITM=1.1A tp=380 μs	TJ=25	1.4	V
VTO	Threshold	TJ=125	0.8	V
Rd	Dynamic	TJ=125	287	mΩ
IDRM	VD=VDRM VR=VRRM	TJ=25	5	μA
IRRM		TJ=125	0.2	mA

THERMAL RESISTANCES

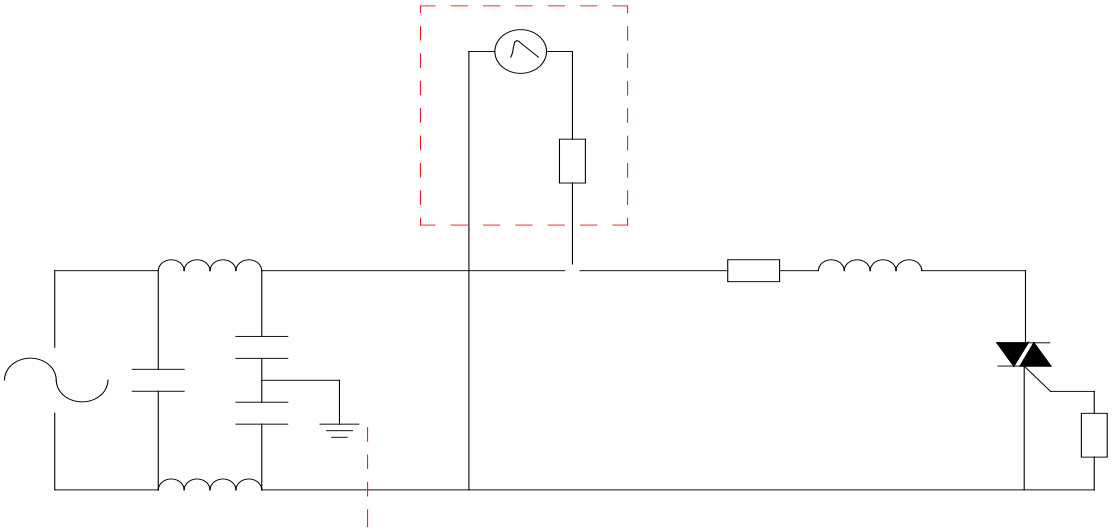
Symbol	Parameter	Value	Unit

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

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



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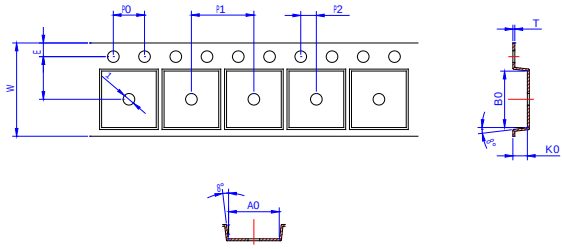
ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT110-8V	800	10	SOT-223	4,000	Tape & Reel

Document Revision History

Date	Revision	Change
April 13, 2023	A.1.0	Latest updated

DELIVERY MODE



Re.	Dimensions					
	Millimeters			Inch		
	Min.	Typ	Max	Min.	Typ	Max
W			12.30			0.482
E	1.65	1.75	1.85	0.065	0.069	0.073
F	5.45	5.50	5.55	0.215	0.217	0.219
D0		1.55	1.60		0.061	0.063
D1						
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.95	2.00	2.05	0.077	0.079	0.081
10P0	39.80	40.00	40.20	1.567	1.575	1.583
A0	6.85	6.95	7.05	0.269	0.273	0.276
B0	7.15	7.25	7.35	0.280	0.284	0.288
K0	1.95	2.05	2.15	0.076	0.080	0.084
T	0.20	0.25	0.30	0.008	0.010	0.012

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