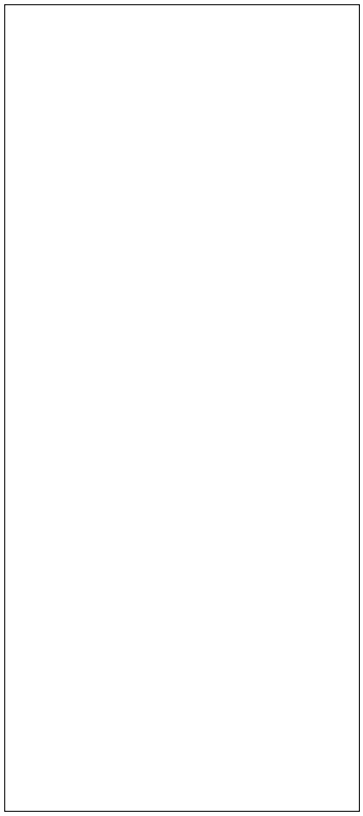
ACJP01W-800SW 1A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJP01W-800SW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications



Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.1	W
Peak gate power	P_{GM}	2	W
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.	0.15	V
I_L	I_G =1.2I_{GT}		MAX.	25	mA
				10	
I_H	I_T =100mA		MAX.	10	mA
dV/dt	V_D=540V Gate Open T_j =125		MIN.	100	V/μs
(dI/dt)c	(dV/dt)c=10V/μs, T_j=125		MIN.	0.6	A/ms
t_{on}	I_G=20mA I_A=200mA I_R=20mA T_j=25		TYP.	2.5	μs
t_{off}				25	
V_{CL}	I_{CL}=0.1mA t_p=1ms		MIN.	900	V

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM} =1.1A t_p=380μs	T_j=25	1.3	V
V_{TO}	Threshold voltage	T_j=125	0.77	V
R_D	Dynamic resistance	T_j=125	276	mΩ
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=125	0.4	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	25	/W
$R_{th(j-a)}$	junction to ambient (AC)	150	/W

ORDERING INFORMATION

ACJ P 01 W -800 SW

- ACJ: JieJie AC switch series
- P: Plannar technology
- 01: $I_{T(RMS)}$:1A
- W: SOT-223-2L
- -800: 800:V_{DRM} /V_{RRM} ≥ 800V
- SW: SW:I_{GT2-3}≤10mA

MARKING

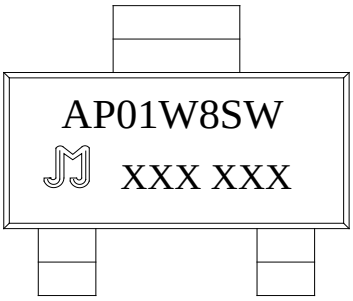


FIG.1: Maximum power dissipation versus RMS on-state current

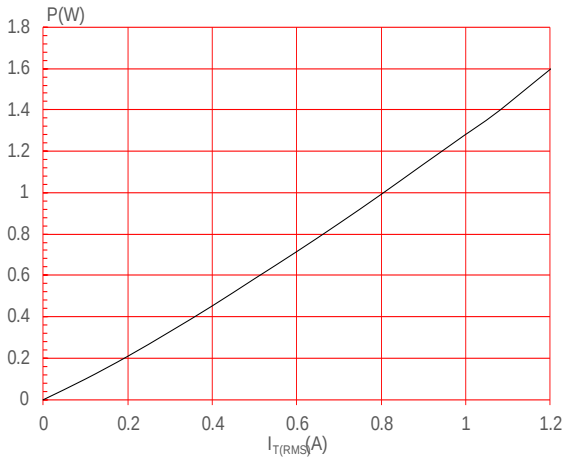


FIG.2: RMS on-state current versus case temperature

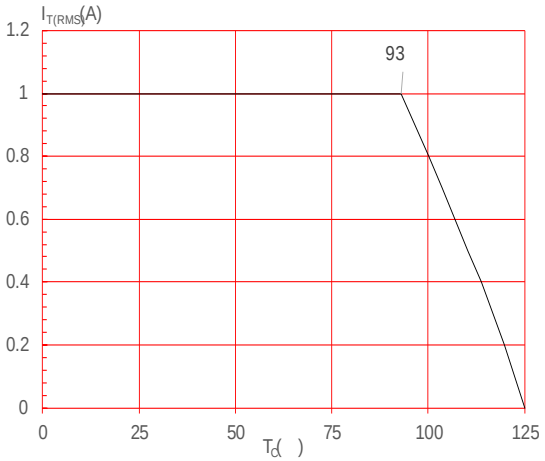


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

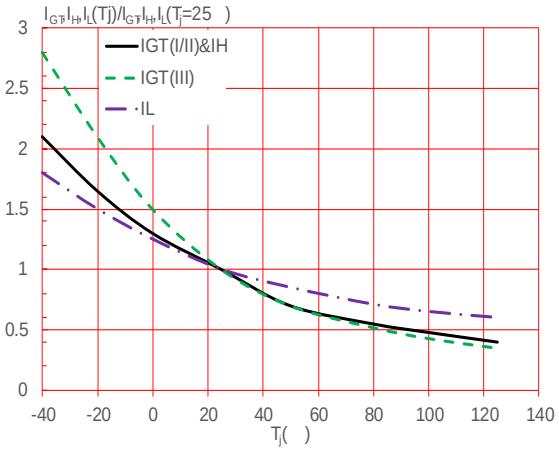
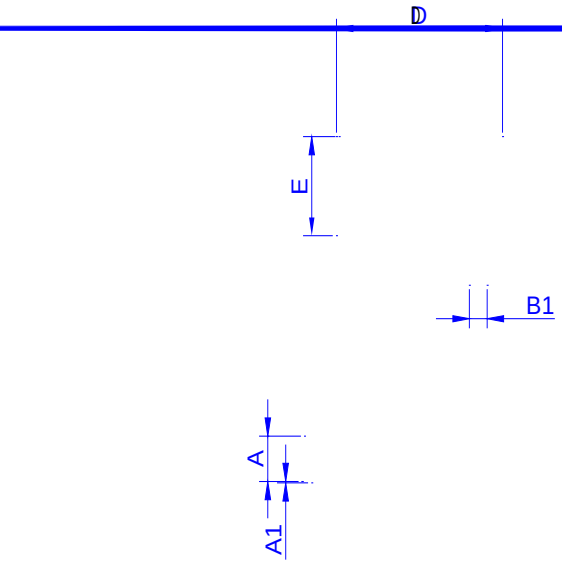


FIG.8 Test circuit for inductive and resistive loads to IEC-

PACKAGE MECHANICAL DATA



DELIVERY MODE

Dimensions	
Ref.	Millimeters