

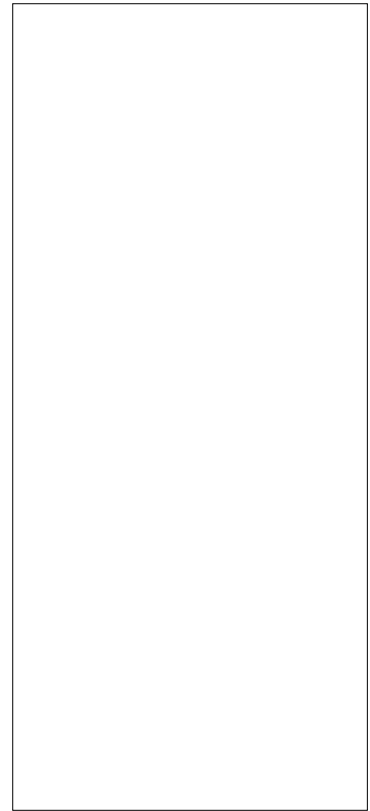


ACJP01W-800SW 1A TRIAC

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 ($T_j=125^\circ\text{C}$)	$P_{G(AV)}$	0.1	W
Peak gate power	P_{GM}	2	W
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.8)	V_{pp}	4.5	kV

ELECTRICAL CHARACTERISTICS (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}	$V_D=V_{DRM}$ $T_j=125^\circ\text{C}$ $R_L=3.3k\Omega$	-	MIN.	0.15	V
I_L	$I_G=1.2I_{GT}$		MAX.	25	mA
				10	
I_H	$I_T=100\text{mA}$		MAX.	10	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125^\circ\text{C}$		MIN.	100	V/ μs
$(dI/dt)_c$	$(dV/dt)_c=10V/\mu\text{s}$, $T_j=125^\circ\text{C}$		MIN.	0.6	A/ms
t_{on}	$I_G=20\text{mA}$ $I_A=200\text{mA}$ $I_R=20\text{mA}$ $T_j=25^\circ\text{C}$		TYP.	2.5	μs
t_{off}				25	
V_{CL}	$I_{CL}=0.1\text{mA}$ $t_p=1\text{ms}$		MIN.	900	V

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=1.1A$ $t_p=380\mu\text{s}$	$T_j=25^\circ\text{C}$	1.3	V
V_{TO}	Threshold voltage	$T_j=125^\circ\text{C}$	0.77	V
R_D	Dynamic resistance	$T_j=125^\circ\text{C}$	276	$m\Omega$
I_{DRM}	$V_D=V_{DRM}$ $V_R=V_{RRM}$	$T_j=25^\circ\text{C}$	5	μA
I_{RRM}		$T_j=125^\circ\text{C}$	0.4	mA

THERMAL RESISTANCES

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

ORDERING INFORMATION

ACJ	P	01	W	-800	SW
JieJie AC switch series	Plannar technology	IT(RMS):1A	W:SOT-223-2L	800:VDRM /VRRM ≥ 800V	SW:IGT2-3≤10mA

MARKING

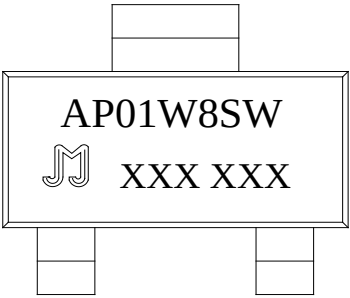


FIG.1: Maximum power dissipation versus RMS on-state current

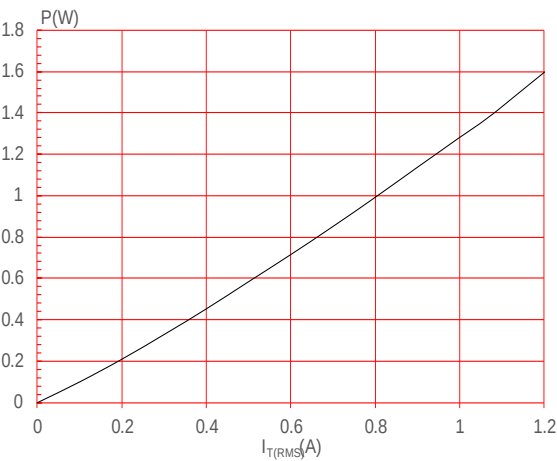


FIG.2: RMS on-state current versus case temperature

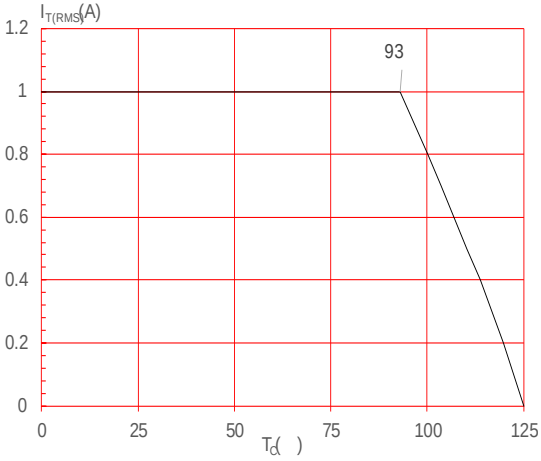


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

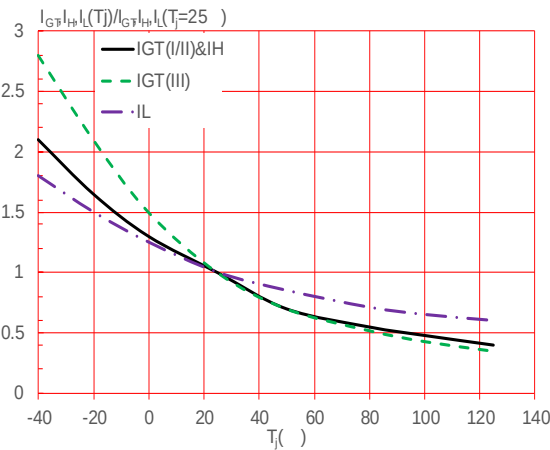
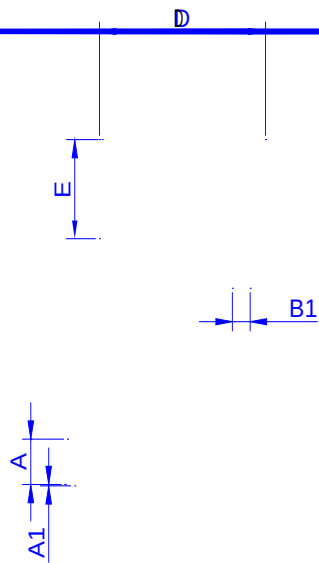


FIG.8 Test circuit for inductive and resistive loads to IEC-

PACKAGE MECHANICAL DATA



DELIVERY MODE

Dimensions	
Ref.	Millimeters

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