

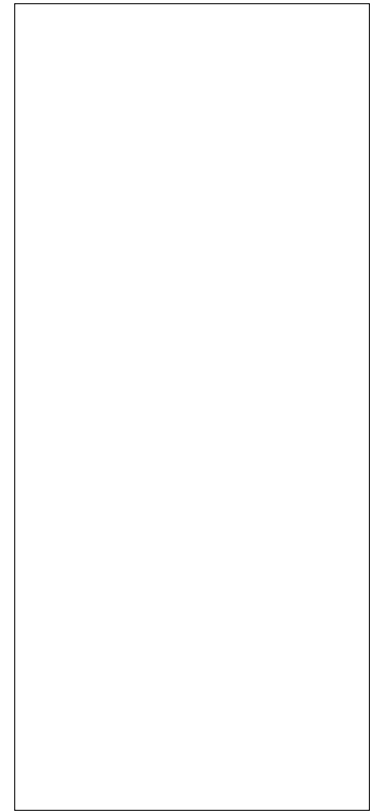


**ACJP01W-800SW 1A TRIAC**

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



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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** (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.	0.15	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/ $\mu s$
$(dI/dt)_c$	$(dV/dt)_c=10V/\mu s$ , $T_j=125$		MIN.	0.6	A/ms
$t_{on}$	$I_G=20mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		TYP.	2.5	$\mu s$
$t_{off}$				25	
$V_{CL}$	$I_{CL}=0.1mA$ $t_p=1ms$		MIN.	900	V

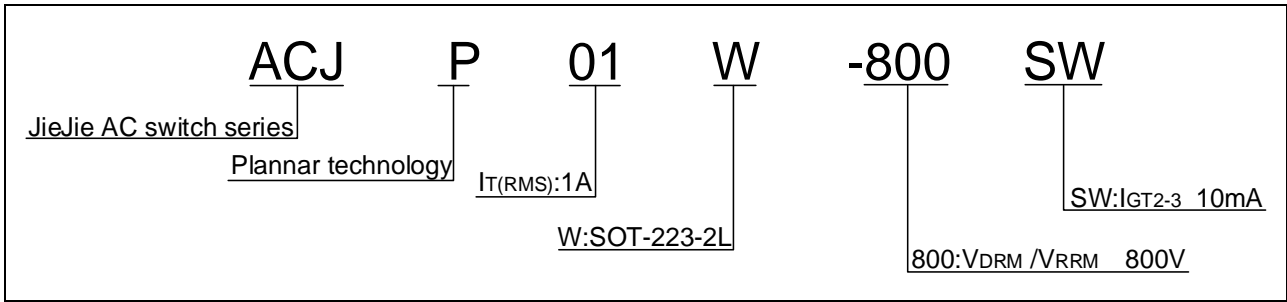
**STATIC CHARACTERISTICS**

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

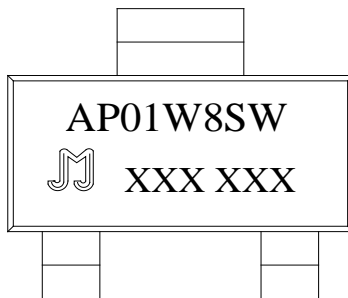
**THERMAL RESISTANCES**

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

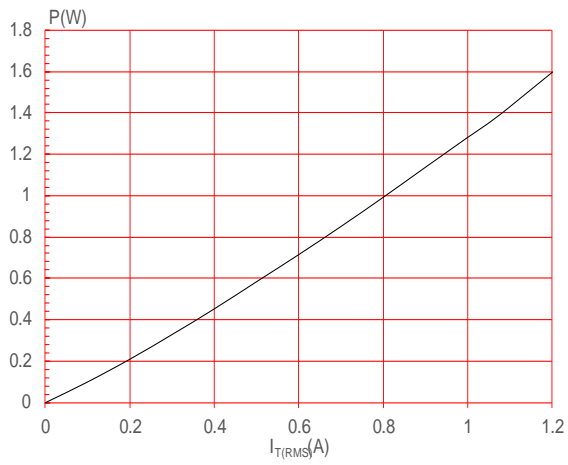
ORDERING INFORMATION



MARKING



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



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

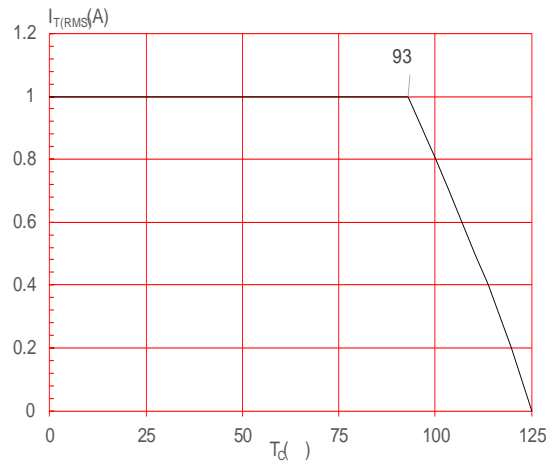


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

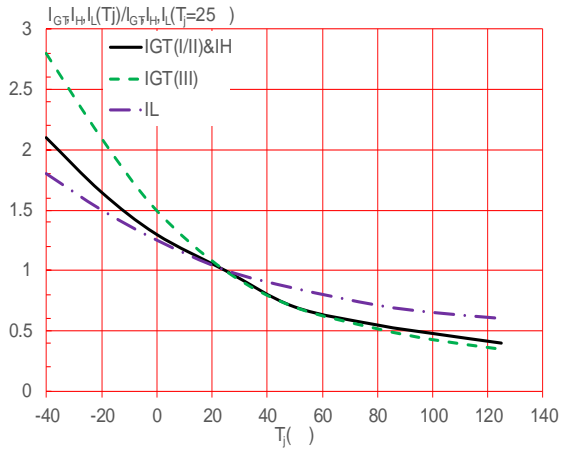
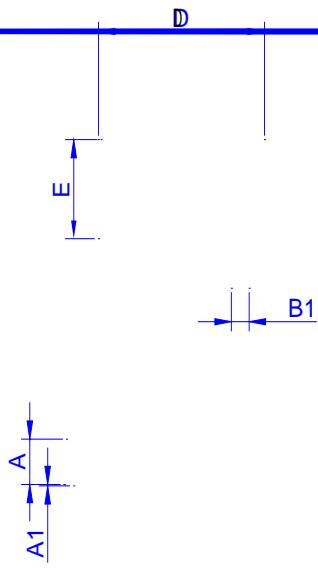


FIG.8 Test circuit for inductive and resistive loads to IEC-



PACKAGE MECHANICAL DATA



DELIVERY MODE

Ref.	Dimensions Millimeters
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