ACJT04F-800SW 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT04F-800SW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating r

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Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	3.25	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.	0.2	V
I_L	I_G =1.2I_{GT}	-	MAX.	30	mA
				45	
I_H	I_T =100mA		MAX.	25	mA
dV/dt	V_D=540V Gate Open T_j =125		MIN.	550	V/μs
(dI/dt)c	(dV/dt)c=10V/μs, T_j=125		MIN.	3.5	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.	850	V

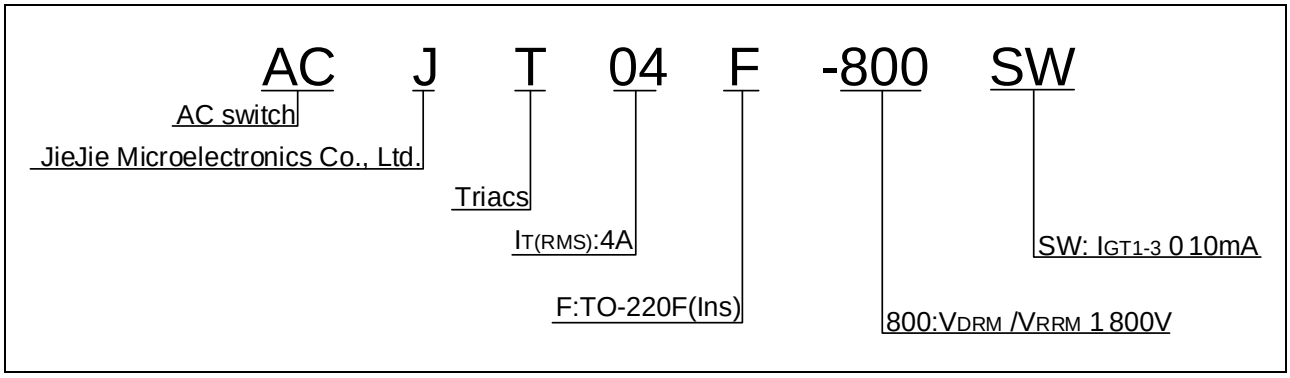
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM} =5.6A t_p=380μs	T_j=25	1 .6	V
V_{TO}	Threshold voltage	T_j=125	0 .9	V
R_D	Dynamic resistance	T_j=125	80	mΩ
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=125	0.25	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	3.5	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W

ORDERING INFORMATION



MARKING

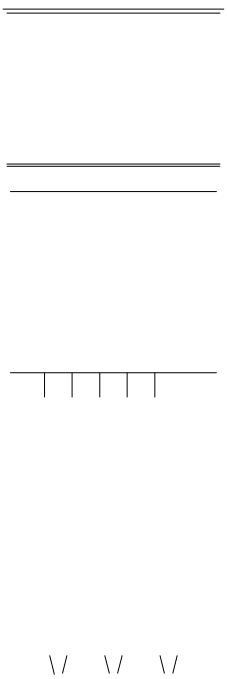


FIG.1: Maximum power dissipation versus RMS on-state current

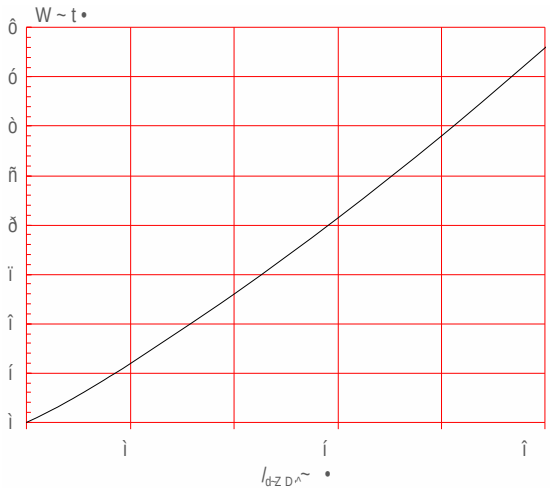


FIG.2: RMS on-state current versus case temperature

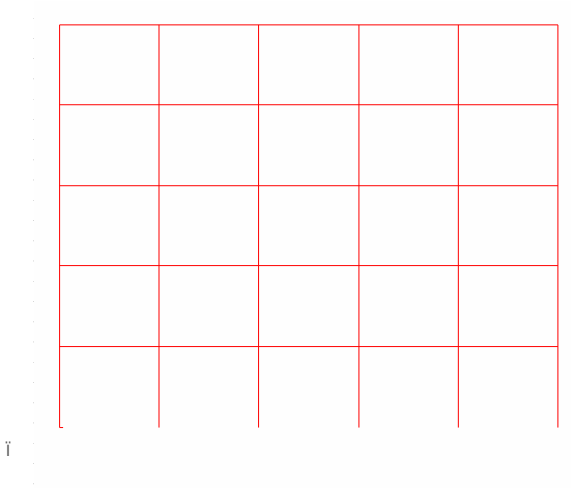
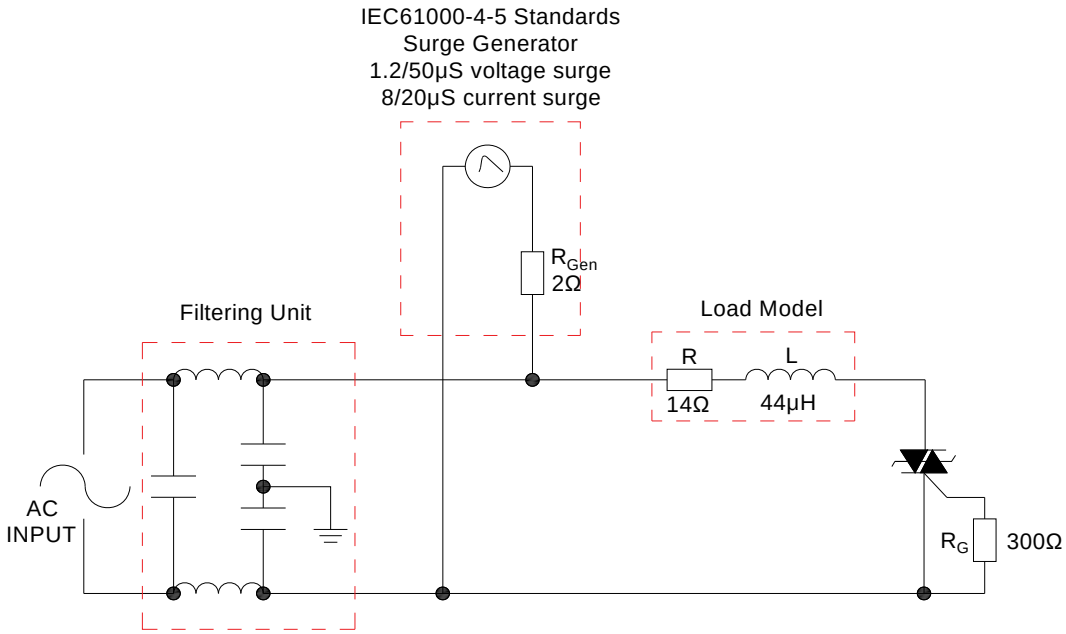


FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



LEAD FORMING AND SOLDERING

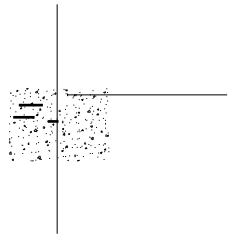
Refer to the application note “Assembly Instructions for Thyristors in Through-hole Package” released by JieJie D] Œ } o š Œ } v] • X

	Package	Base qty. (pcs)	Delivery mode
	TO-220F(Ins)	50	Tube

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PACKAGE MECHANICAL DATA



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