

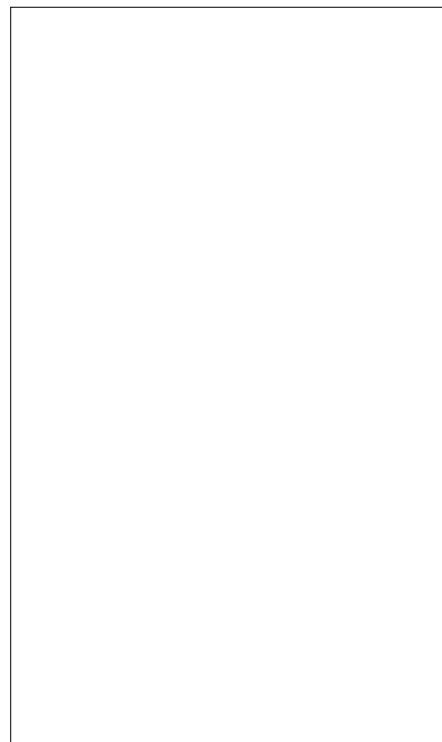


ACJT625-8C 6A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT625-8C triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. The ACJT625-8C embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-220C is RoHS compliant.



MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	

Repetitive peak off-state voltage ($T_j=25^\circ\text{C}$)

Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.7)	V_{pp}	3.5	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	25	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125^\circ\text{C}$ $R_L=3.3k\Omega$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	40	mA
				60	
I_H	$I_T=100\text{mA}$		MAX.	40	mA

dV/dt $V_D=540V$ Gate OpeV

ORDERING INFORMATION

<u>AC</u>	<u>J</u>	<u>T</u>	<u>6</u>	<u>25</u>	<u>-8</u>	<u>C</u>
AC switch		Triacs				C:TO-220C
JieJie Microelectronics Co., Ltd.		$I_{T(RMS)}:6A$				
		25: I_{GT1-3} 25mA				
					8: V_{DRM} / V_{RRM} 800V	

MARKING

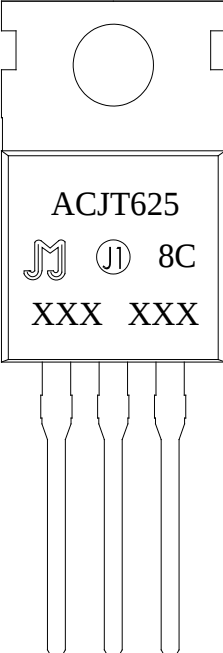
 ACJT625   8C XXX XXX	XXX XXX Year Month Production Code
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FIG.1: Maximum power dissipation versus RMS on-state current

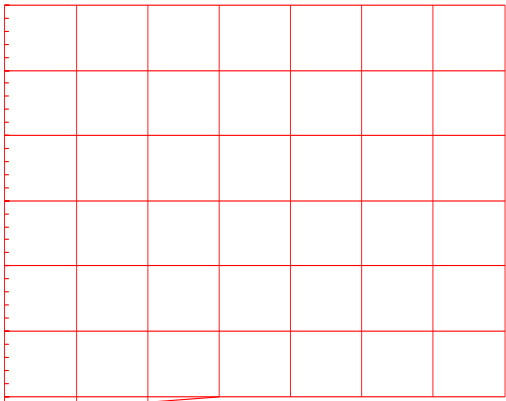


FIG.2: RMS on-state current versus case temperature

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

ORDERING INFORMTON

Order coe	
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