



ACJT625-8A 6A TRIAC

Rev.A.1.1

DESCRIPTION:

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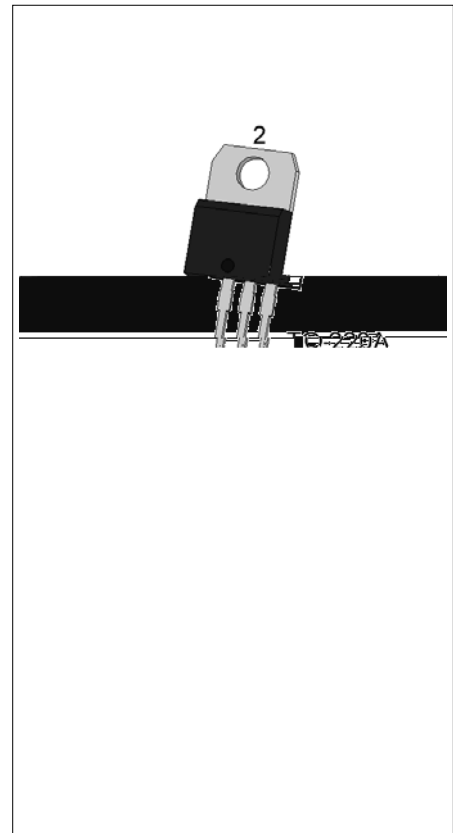
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MAIN FEATURES

Parameter	Value	Unit
$I_{T(RMS)}$	6	A
V_{DR} / V_R	800	V
I_{GT} / I	25/25/25	mA

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage Temperature	T_g	-40-150	
Junction Temperature	T_j	-40-125	
Repetitive Peak Forward Current (T _a = 25°C)	V_{DR}	800	V
Peak Reverse Current (T _a = 25°C)	V_R	800	V
Non-repetitive Peak Forward Current (T _a = 25°C, c ≤ 100°C)	$I_{T(RMS)}$	6	A
Non-repetitive Peak Forward Current (T _a = 25°C, p = 20μs)	I_s	60	A
Non-repetitive Peak Forward Current (T _a = 25°C, p = 16.6μs)		66	
Peak Forward Surge Current (T _a = 25°C, p = 10μs)	I^2t	18	A ² s
Gate Trigger Current (I _G = 2 × I _{GT} , f = 100Hz, T _a = 125°C)	dI/dt	100	A/εs
Gate Trigger Current (T _a = 25°C, p = 20μs, T _a = 125°C)	I_{GM}	4	A

$P_{G(AV)}$ (T = 125 °C)	$P_{G(AV)}$	0.5	W
$P_{G(I)}$	$P_{G(I)}$	10	W
V_p (T = 25 °C; $\rho = 10^{-6} \Omega \cdot cm$ - FIG.7)	V_p	3.5	V

ELECTRICAL CHARACTERISTICS

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D = 12V$ $L = 33\mu H$	- -	MAX .	25	m
V_{GT}		- -	MAX .	1	V

$V_{GD} \leq V$

ORDERING INFORMATION

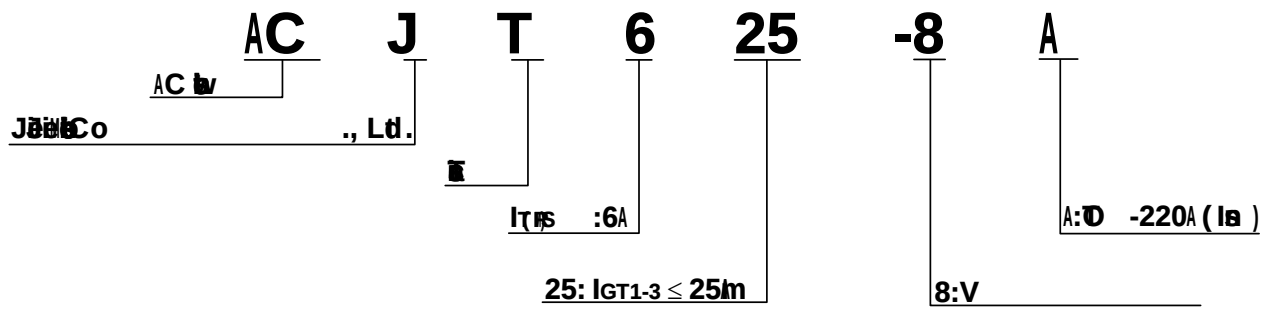


FIG.1: 

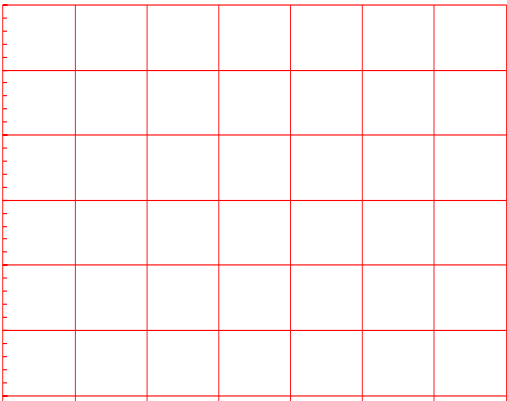
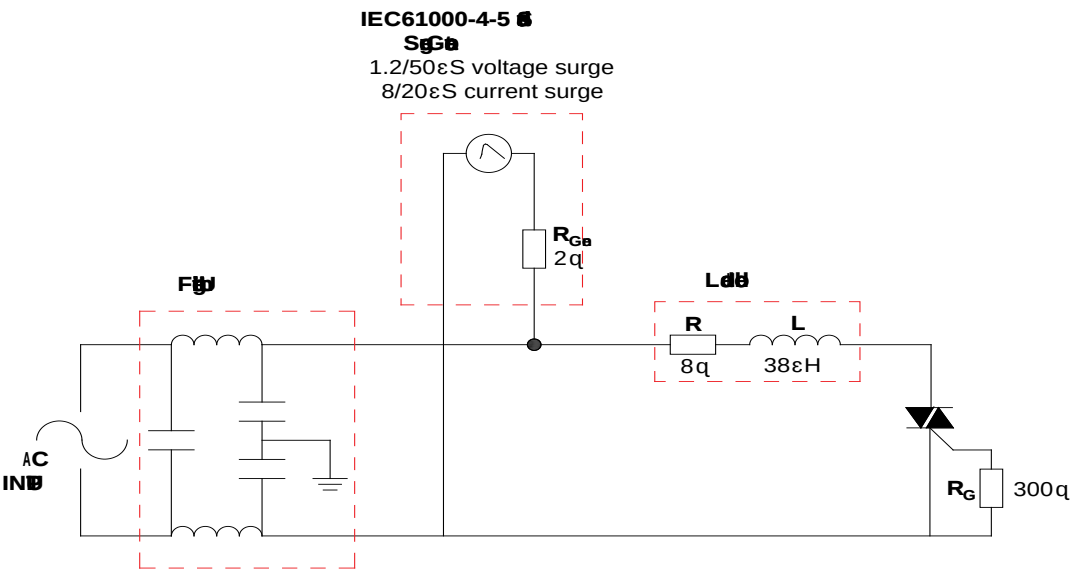



FIG.2:  


FIG.7

-61000-4-5



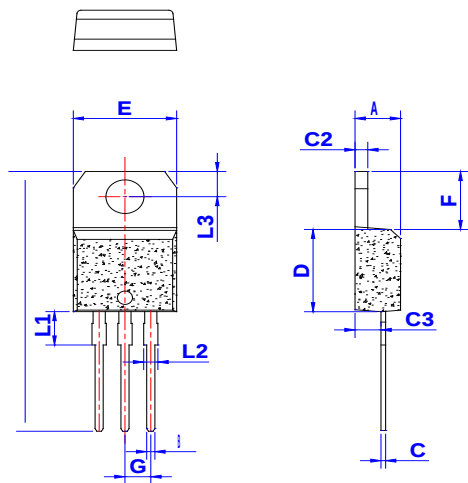
ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT625-8A	800	25	TO-220A(Ins)	50	Tube

Document Revision History

Date	Rev	Change
Apr. 14, 2023	A. 1.0	Initial
03, 2025	A. 1.1	Rev. PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



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