

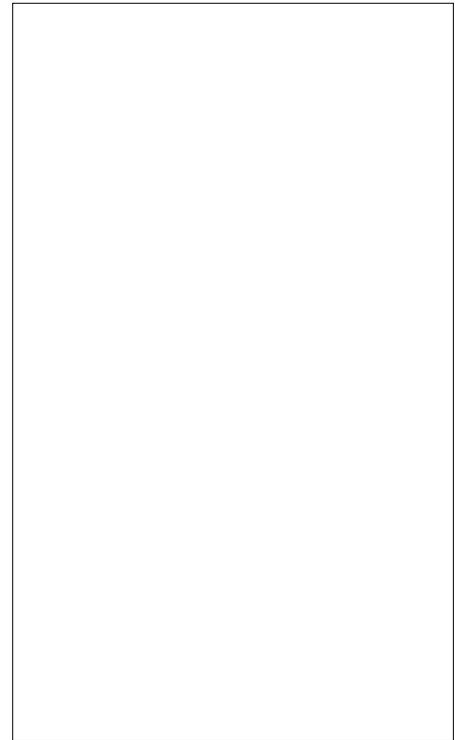


ACJT625-10C 6A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT625-10C 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 ACJT625-10C 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 <sub>stg</sub>	-40-150	
		-40-125	
		1000	V
		1000	V
		6	A

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

Symbol	Test Condition	Unit	Min	Typ	Max
$I_{GT}$	$V_D=12V$ $R_L=33$	A	0	0.1	0.15



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

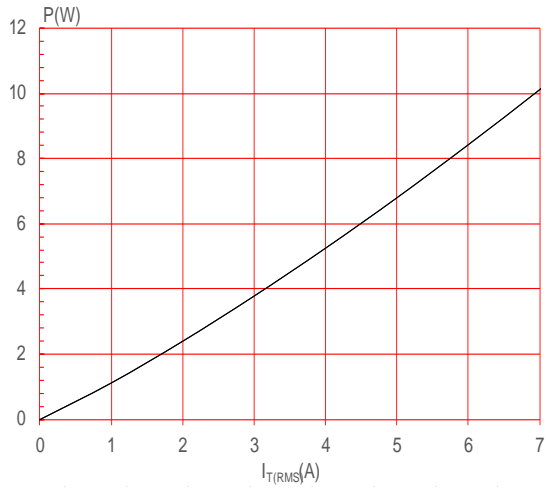
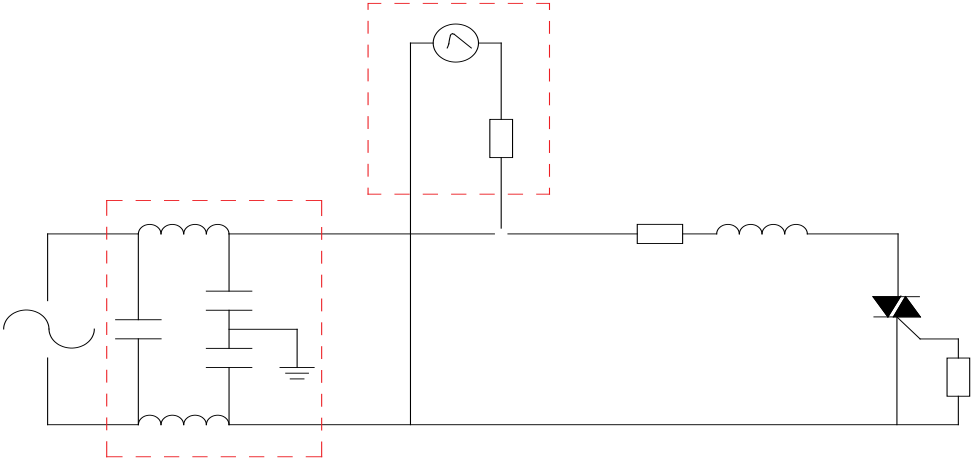


FIG.2: RMS on-state current versus case temperature



70  
60  
50  
40  
30  
20  
10  
0

FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards "6FQ" A \ r™•a



ORDERING INFORMATION

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT625-10C	1000	25	TO-220C	50	Tube

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.15, 2025	A.1.1	3 1 5 0 . 5 6 0 1 d ( ) T 2 7 ( ) ] T J

PACKAGE MECHANICAL DATA



