

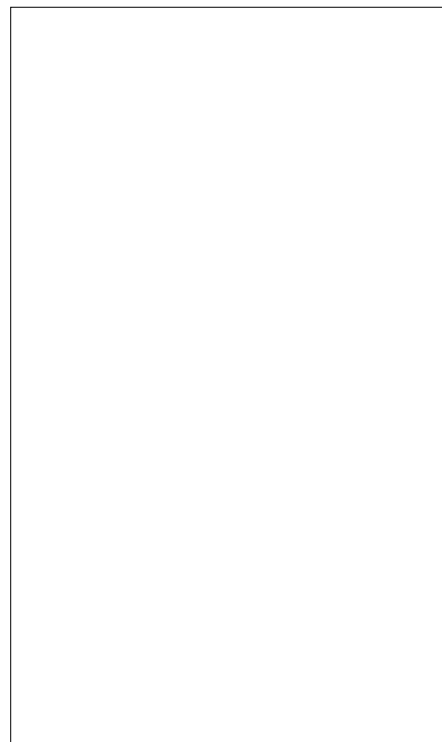


ACJT405-10K 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The ACJT405-10K 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 ACJT405-10K embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-252 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	

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8)	V_{pp}	3	kV
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ELECTRICAL CHARACTERISTICS ($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	5	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k\Omega$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	15	mA
				20	
I_H	$I_T=100mA$		MAX.	10	mA
dV/dt	$V_D=670V$ Gate Open $T_j=125$		MIN.	150	V/ μs
$(dI/dt)_c$	$(dV/dt)_c=10V/\mu s$, $T_j=125$		MIN.	1.2	A/ms
t_{on}	$I_G=10mA$ $I_A=200$				

ORDERING INFORMATION

AC	J	T	4	05	-10	K	-/
AC switch		Triacs					Blank:Tube -TR:Tape & Reel
JieJie Microelectronics Co., Ltd.		IT(RMS):4A				K:TO-252	
		05: IGT1-3 ≤ 5mA			10: VDRM /VRRM ≥ 1000V		

MARKING

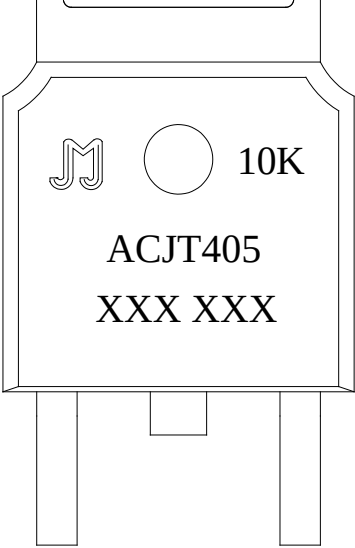
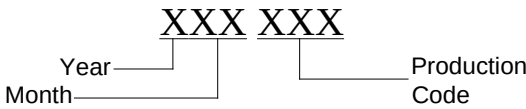
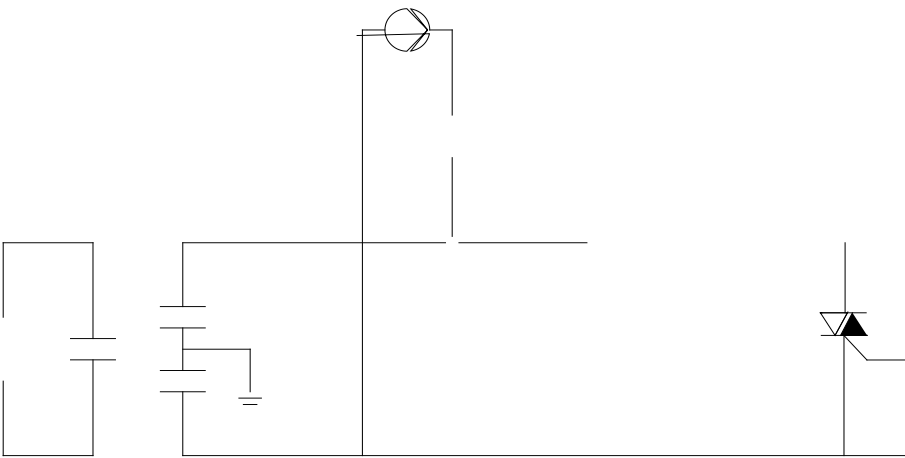
	
10K	XXX XXX
ACJT405	Year
XXX XXX	Month
	Production Code

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



FIG.8 Test circuit for inductive d145 /TT resistive loads t_{611C4-} 5td145 /TTards



ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJT405-10K	1000	5	TO-252	80	Tube
ACJT405-10K-TR				2,500	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.22, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

[illegible]

ACJT405-10K

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