

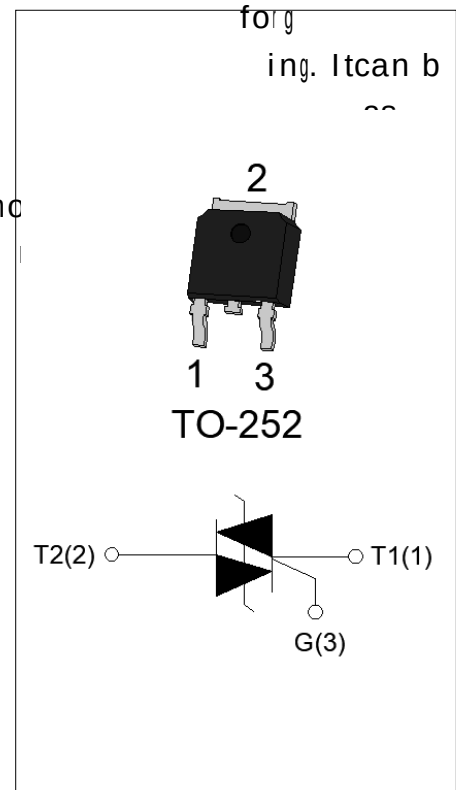


ACJP1225-8K 12A TRIAC

Rev.A.1.1

ACJP1225-8K triac is suitable for the following applications:

- motor starting circuits for
- light dimmer
- ACJP1225-8K
- inductive load
- standards package



Symbol	Value	Unit
$I_{T(RMS)}$	12	A
V_{DRM} / V_{RRM}	8	V
I_{GT} / I_{G}	25/25/25	mA

Parameter	Symbol	Value	Unit
Storage junction temperature	T_s	-40 ~ 150	°C
Operating junction temperature	T_j	-40 ~ 150	°C
Reverse breakover voltage ($F=25$ Hz)	V_{DRM}	800	V
Reverse blocking voltage ($F=25$ Hz)	V_{RRM}	800	V
RMS on-state current ($I_{T(RMS)}$)	$I_{T(RMS)}$	12	A
Non-repetitive surge current (full cycle, $F=25$ Hz)	I_{TSM}	1	A
Non-repetitive surge current (full cycle, $F=16.6$ ms, $T_F=25$ Hz)		11	
Gate trigger current (I_{GT})	I_{GT}	5	A
Critical rate of change of current ($I_{GT}=2$ mA, $F=15$ Hz)	dI/dt	1	A/s
Peak gate current (I_{G})	I_{G}	25	mA
Average power dissipation (P_G)	P_G	0.5	W

P_{eak}	P_{GM1e}	W
P_e ($T_F=25^{\circ}C$; non -bt e8)	V	4 kV

($T_F=25^{\circ}C$ ul e sot

Symbol	Test Condition	Quadrant	Value		Unit
I_G	$V_D^T=12V$ $R_L=33$	- -	MAX.	25	mA
V_G		- -	MAX.	1	V
V_G	$V_D=V_{DRM}$ $T_j=15$ $R_L^D=3.3k$	- -	MIN		V
					0 mA

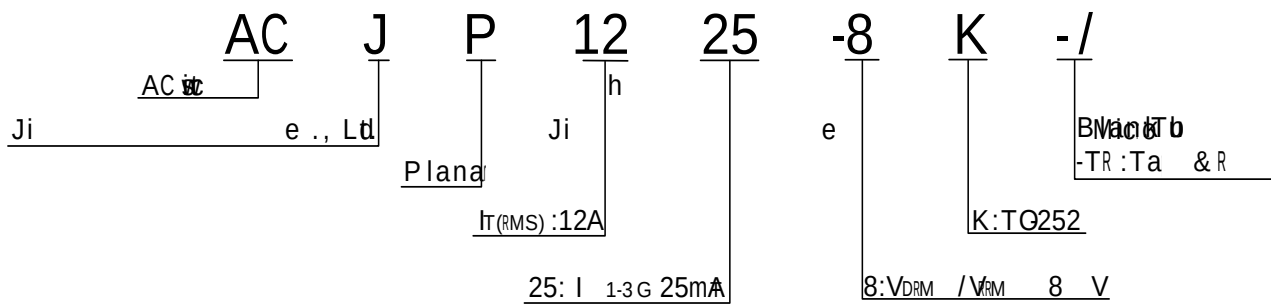
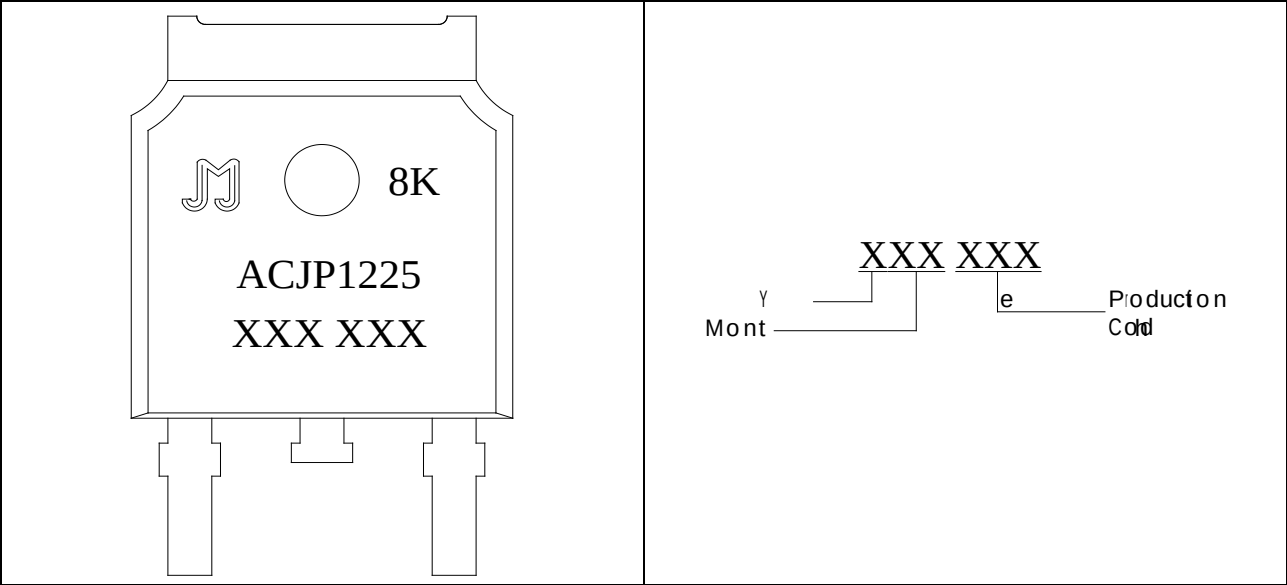


FIG.1: Maximum power point

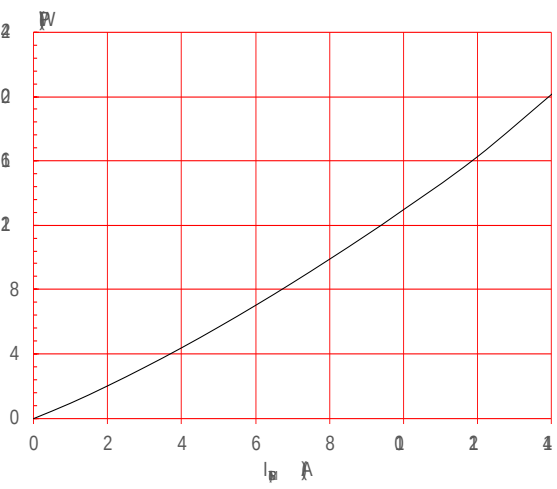


FIG.2: RMS on-state current

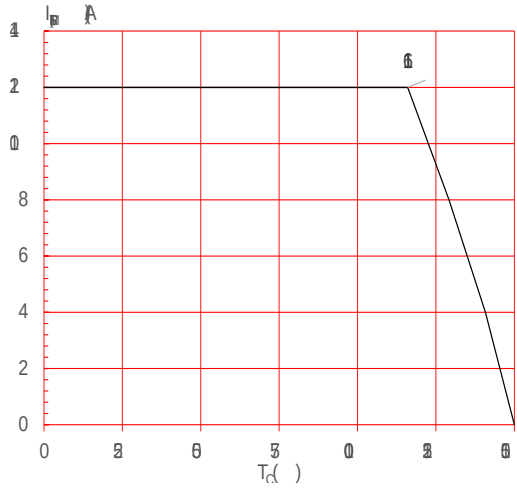
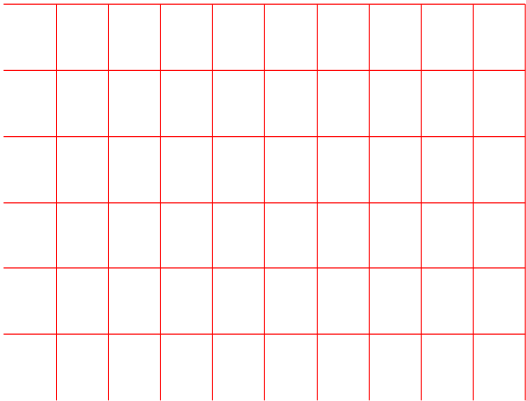


FIG.3: RMS on-state current

FIG.4: Static thermal resistance

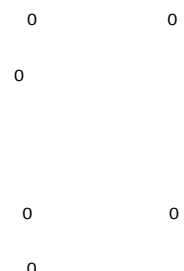
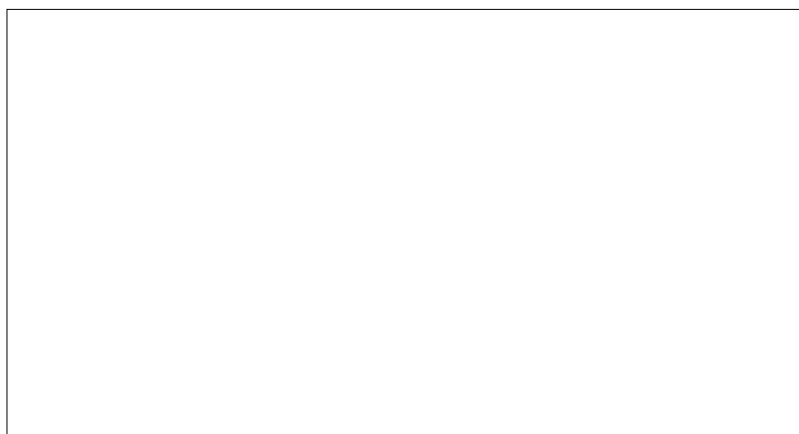
FIG.7: R e h latv e ationsof gat
j ucton t e m olding cu e e
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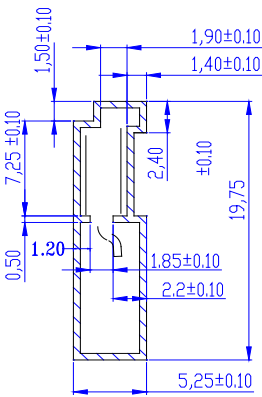


Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
ACJP1225-8K	800	25	TO-252	80	Tube
ACJP1225-8K-TR				2,500	Tape & Reel

Document Revision History

Dat	R	C	h
Jun.27, 2	A.1.	Lat	0e 0 d
Oct22, 2	A.1.1	R	e 0 is

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