



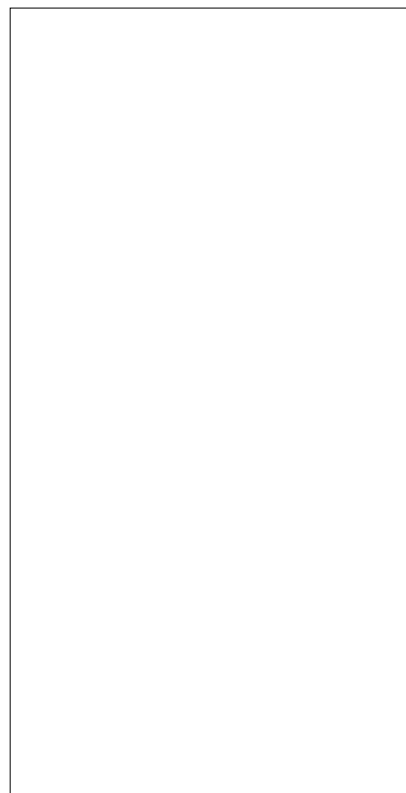
JCT1225A 25A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT1225A SCR provides high dV/dt rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motorcycle, power charger, T-tools etc. From all three terminals to external heatsink, JCT1225A provides a rated insulation voltage of 2500 V_{RMS} , complying with UL standards (File ref: E252906). Package TO-220A 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 ($T_j=25^\circ C$)	V_{DRM}	1200	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	1200	V
Average on-state current ($T_c 0.64^\circ C$)	$I_{T(AV)}$	16	A
RMS on-state current ($T_c 0.64^\circ C$)	$I_{T(RMS)}$	25	A
Non repetitive surge peak on-state current ($t_p=10ms, T_j=25^\circ C$)	I_{TSM}	320	A

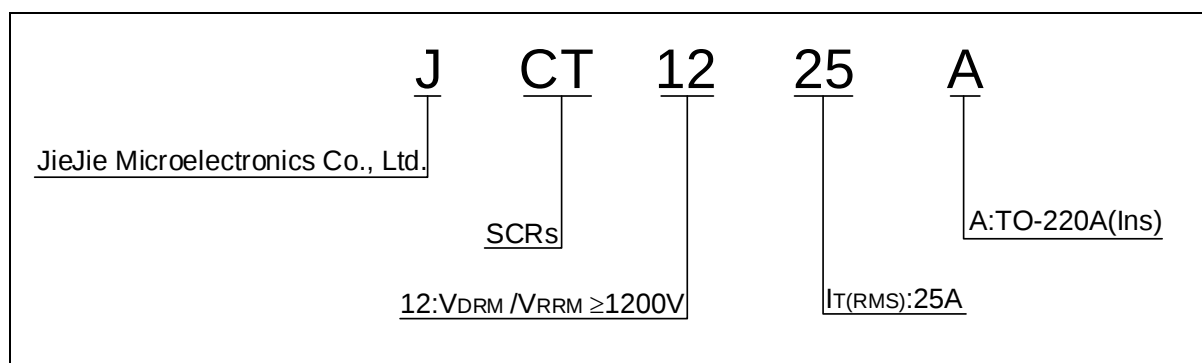


Peak gate current ($t_p=20\text{ s}$, $T_j=125\text{ }^\circ\text{C}$)	I_{GM}	5	A
Average gate power dissipation ($T_j=125\text{ }^\circ\text{C}$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W
Peak pulse voltage ($T_j=25\text{ }^\circ\text{C}$; non-repetitive, off-state; FIG.7)	V_{pp}	1	kV

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12V\ R_L=33\Omega$	-	-	40	mA

ORDERING INFORMATION



MARKING

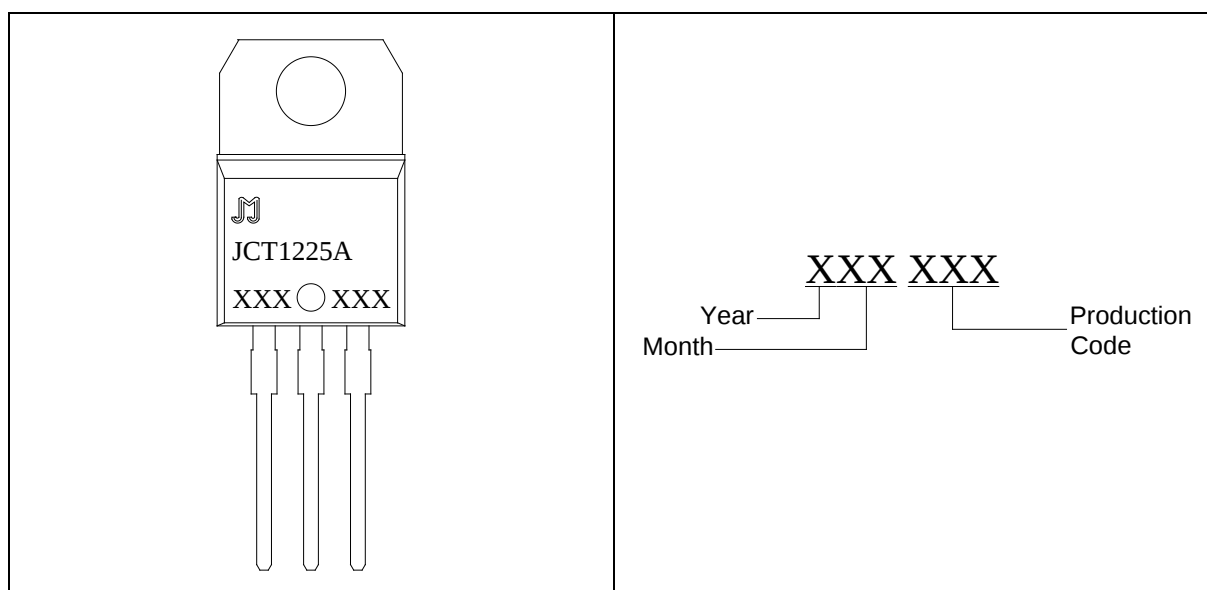
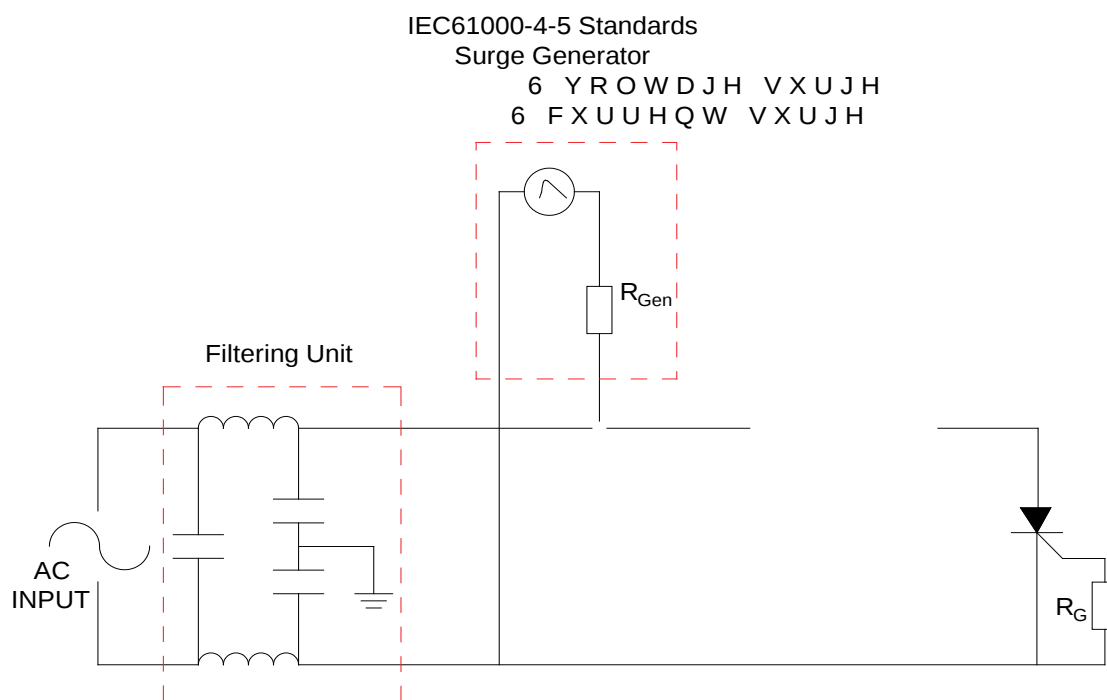


FIG.1: Maximum power dissipation versus
RMS on-state current



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

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



JCT1225A

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PACKAGE MECHANICAL DATA 4865.250 1890.2050.3760.392

