JCT612C 12A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand severe block loading, JCT612C of silicon controlled rectifiers provides high dV/dt rate with high resistance to electromagnetic interference. Especially recommended for use on inductive load, such as solid state relay, motorcycle, power tool, home appliance. Package TO-220C is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	12	A
V_{DRM}/V_{RRM}	600	V
I_{GT}	≤15	mA

ABSOLUTE MAXIMUM RATINGS

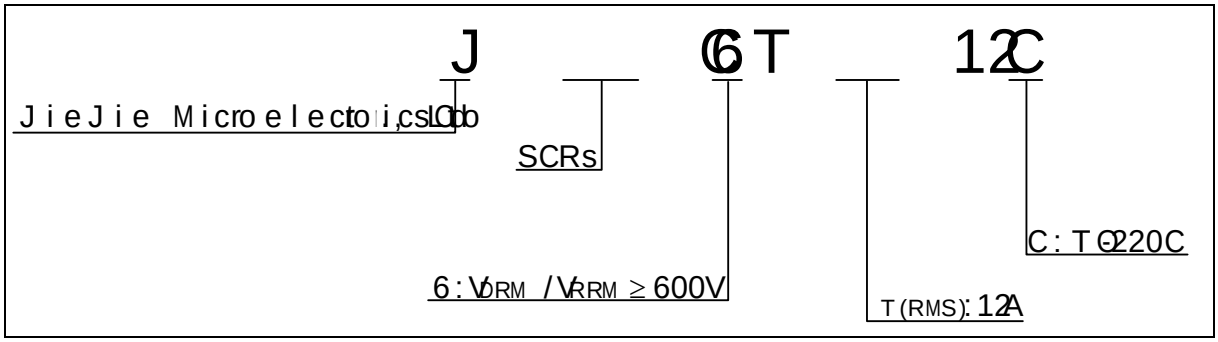
Parameter	Symbol	Value	Unit

Average gate power dissipation (T_j =) 125	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage (T_j =; 25 repetitive, of-state; F	V_p	0.5	kV

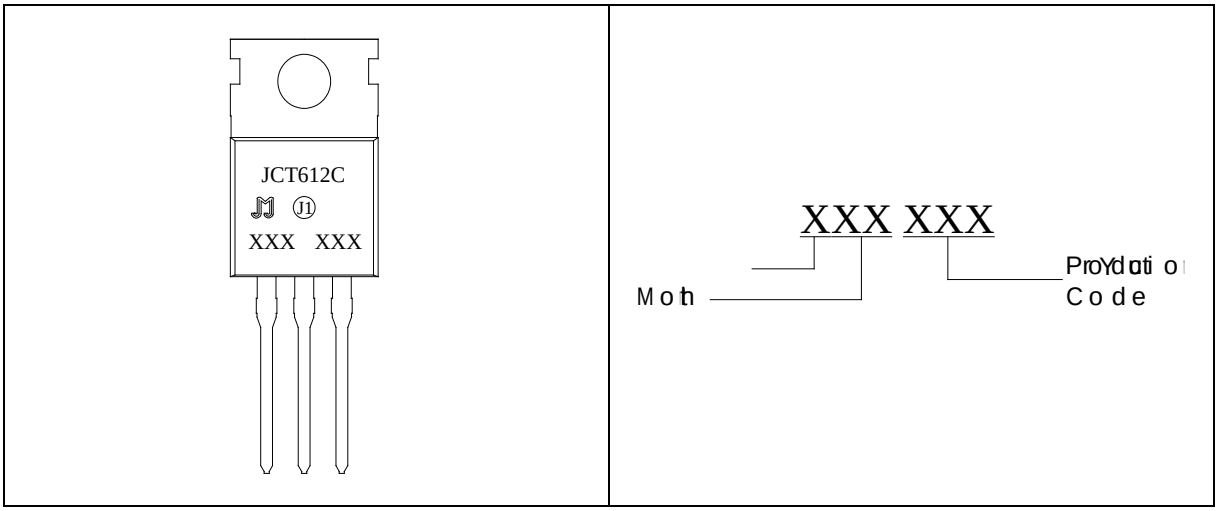
ELECTRICAL CHARACTERISTICS (T_j = unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
GT	V_D = L 12V R 33	-	-	15	mA
V_{GT}		-	-	1	V
V_{GD}	V_D DRM= T_j 25= R 1 kΩ 3.3	0.2	-	-	V
L G 1.2= T		-	-	60	mA

ORDERING INFORMATION



MARKING



JCT612C

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

