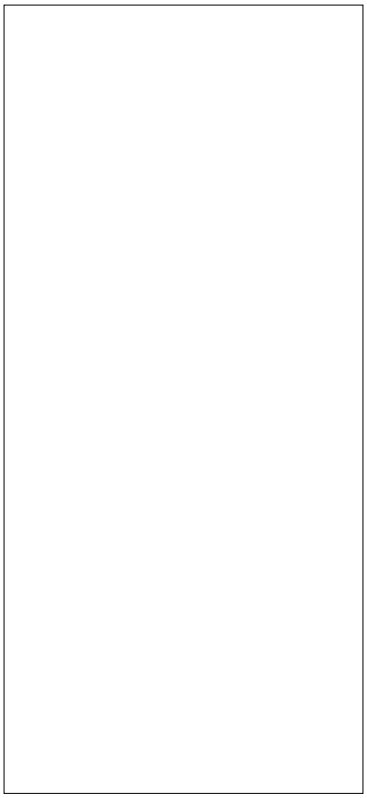
JCT820A 20A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT820A 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,JCT820A 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 R 0 Tc 0 4U0.0027 (UTT (E)10.3 (A)G0 (nt6 0 Td ( )Tj EMC /1F

Peak gate current (t_p=20 s , T_j=125)	I_{GM}	5	A
Average gate power dissipation (T_j=125)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	0.5	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	V_D=12V R_D=33	-	-	15	mA
V_{GT}		-	-	1	V

ORDERING INFORMATION

J	CT	8	20	A
JieJie Microelectronics Co., Ltd.	SCRs	8:V_{DRM} /V_{RRM} 1800 V	$I_{T(RMS)}$:20A	A:TO-220A(Ins)

MARKING

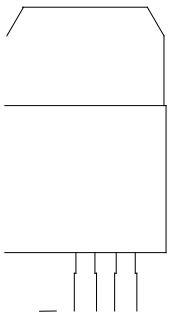


FIG.1: Maximum power dissipation versus RMS on-state current

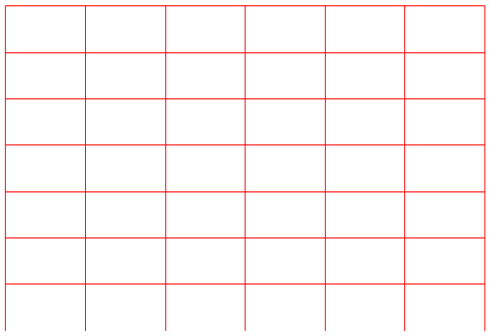


FIG.2: RMS on-state current versus case temperature

PACKAGE MECHANICAL DATA

