



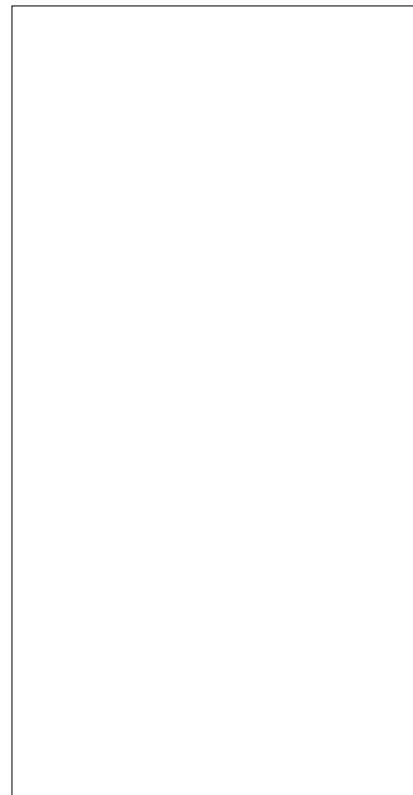
JCT151A-650RH 12A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT151A-650RH of silicon controlled rectifiers 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, JCT151A-650RH provides a rated insulation voltage of 2500 V_{RMS}, complying with UL standards (File ref: E252906).

Package TO-220A is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
I _{T(RMS)}	12	A
V _{DRM} /V _{RPM}	650	V
I _{GT}	"15	mA

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40-150	
Operating junction temperature range	T _j	-40-150	
Repetitive peak off-state voltage (T _j =25)	V _{DRM}	650	V
Repetitive peak reverse voltage (T _j =25)	V _{RPM}	650	V

Average on-state current (T_c 0

Peak gate current ($t_p=20 \text{ s}$, $T_j=150 \text{ }$)	I_{GM}	4	A
Average gate power dissipation ($T_j=150 \text{ }$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W

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

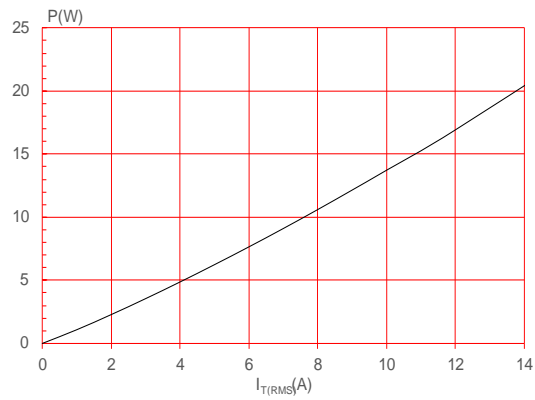


FIG.3: Surge peak on-state current versus number of cycles

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

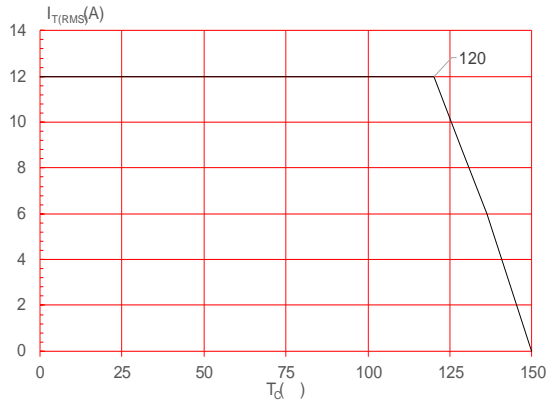
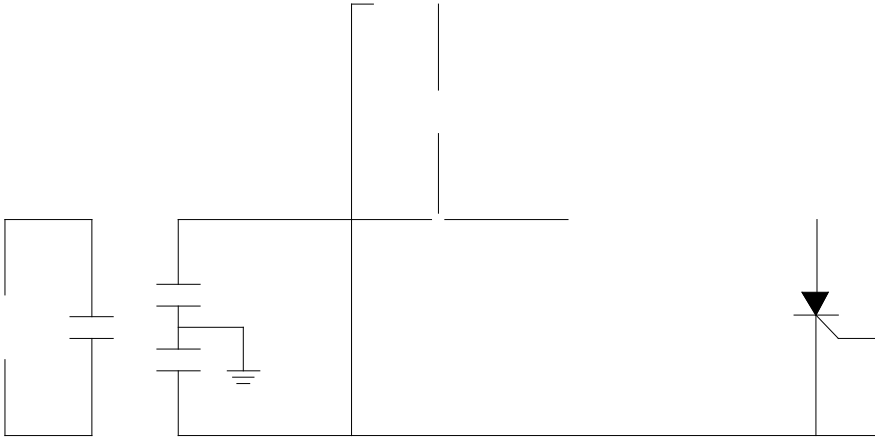


FIG.4: On-state characteristics

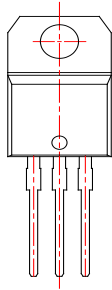
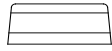
FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards.




ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	
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PACKAGE MECHANICAL DATA



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