



JCT1055Z 55A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT1055Z 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, JCT1055Z provides a rated insulation voltage of 2500 V_{RMS} , complying with UL standards (File ref: E252906). Package TO-3P is RoHS compliant.

MAIN FEATURES

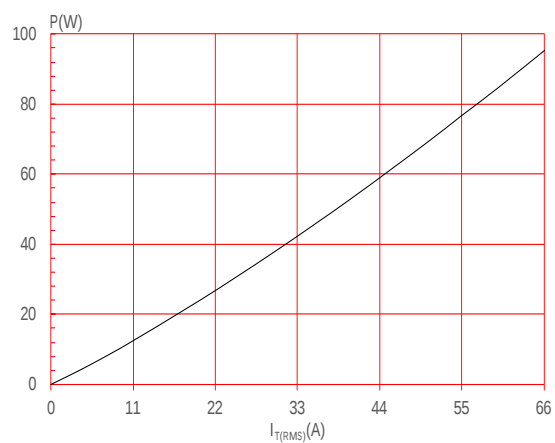
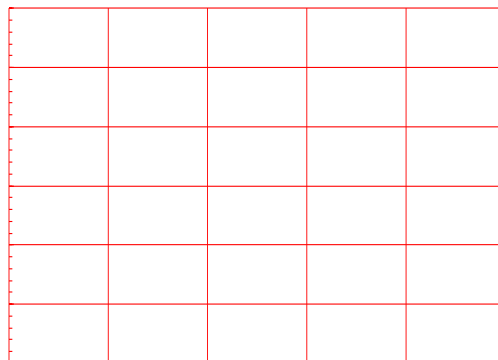
ABSOLUTE MAXIMUM RATINGS

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}	1000	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	1000	V
Average on-state current ($T_c=60^\circ C$)	$I_{T(AV)}$	35	A
RMS on-state current ($T_c=60^\circ C$)	$I_{T(RMS)}$	55	A
Non repetitive surge peak on-state current ($t_p=10ms, T_j=25^\circ C$)	I_{TSM}	700	mA
Non repetitive surge peak on-state current ($t_p=8.3ms, T_j=25^\circ C$)			

Peak gate current ($t_p=20\mu s$, $T_j=125$)	I_{GM}	10	A
Average gate power dissipation ($T_j=125$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W

ORDERING INFORMATION

J CT 10 55 Z

FIG.1: Maximum power dissipation versus RMS on-state current**FIG.2:** RMS on-state current versus case temperature

JCT1055Z

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ORDERING INFO

Order code	IGT(mA)	PackC	0.775.6.48 539.0 10.56 70.463.4 r11.48 563.32 7
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