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)	V_{DRM}	1000	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1000	V
Average on-state current (T_C 60)	$I_{T(AV)}$	35	A
RMS on-state current (T_C 60)	$I_{T(RMS)}$	55	A
Non repetitive surge peak on-state current (t_p=10ms, T_j=25)	I_{TSM}	700m	A

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Non repetitive surge peak on-state current (t_p=8.3ms, T

Peak gate current (t_p=20μs , 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

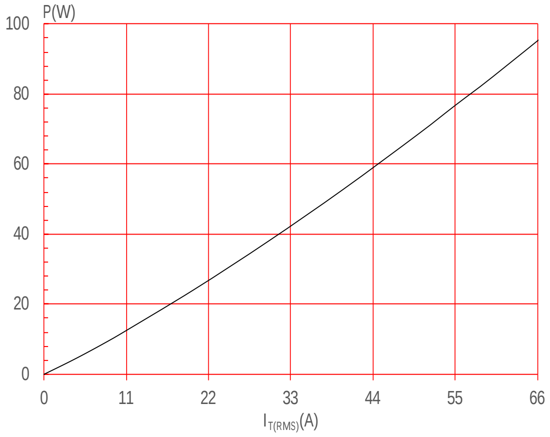
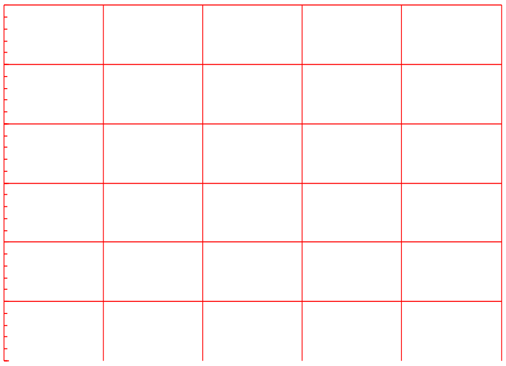


FIG.2: RMS on-state current versus case temperature



ORDERING INFO [redacted]

Order code	[redacted]	IGT(mA)	PackC 0.775.6.48 539.0 10.56 70.468.4 r11.48 563.32 7

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