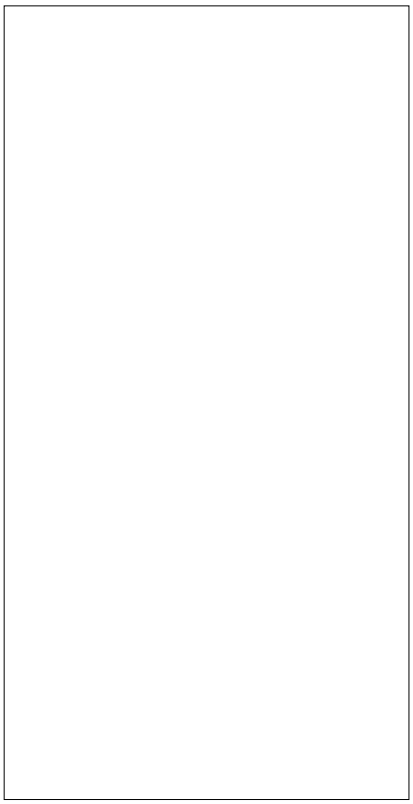
JCT655Z 55A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT655Z 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,JCT655Z 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}	600	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	600	V
Average on-state current (T_C 0 60)	$I_{T(AV)}$	35	A
RMS on-state current (T_C 060)	$I_{T(RMS)}$	55	A
Non repetitive surge peak on-state current (t_p=10ms, T_j=25)	I_{TSM}	700	A
Non repetitive surge peak on-state current (t_p=8.3ms, T_j=25)		750	
I^2t value for fusing (t_p=10ms , T_j=25)		I^2tt‡ [(t.)1102 T.72 254.64 [(t) 0.00m [(0.7>Tj22	

ORDERING INFORMATION

J	CT	6	55	Z
JieJie Microelectronics Co., Ltd.	SCRs	6:V_{DRM} /V_{RRM} ≥600V	$I_{T(RMS)}$:55A	Z:TO-3P(Ins)

MARKING

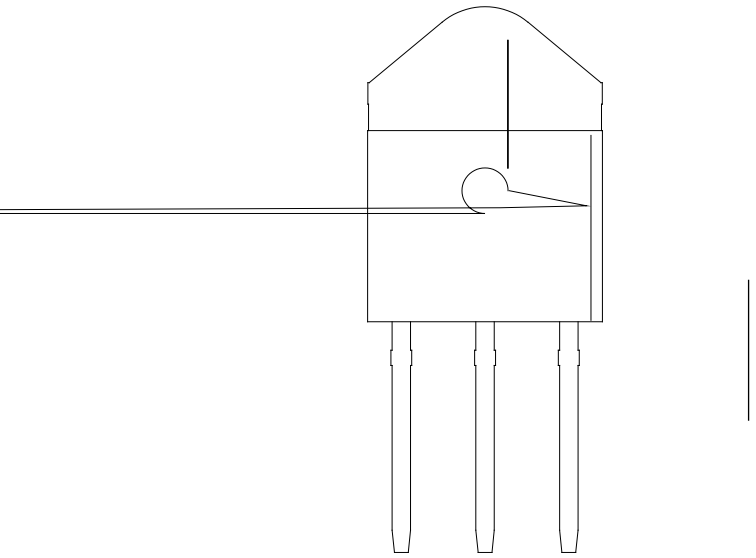


FIG.1: Maximum power dissipation versus RMS on-state current

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

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	Base qty. (pcs)	Delivery mode
JCT655Z	600	10-50	TO-3P(Ins)	30	Tube

Document Revision History

Date	Revision	Changes
Apr.13, 2023	A.1	

JCT655Z Jie Jie M