

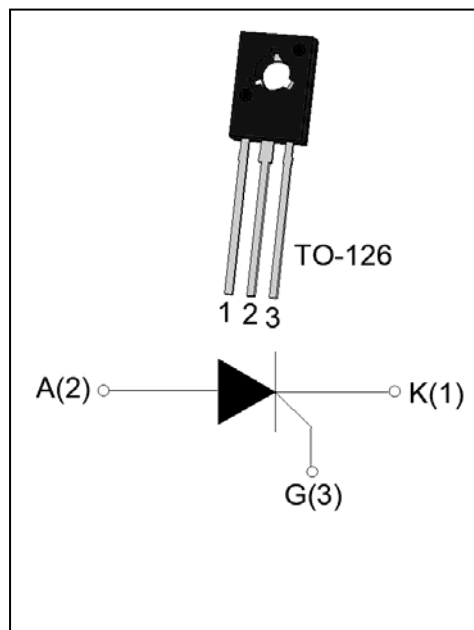


JX020Q 2A Sensitive SCR

Rev.A.1.0

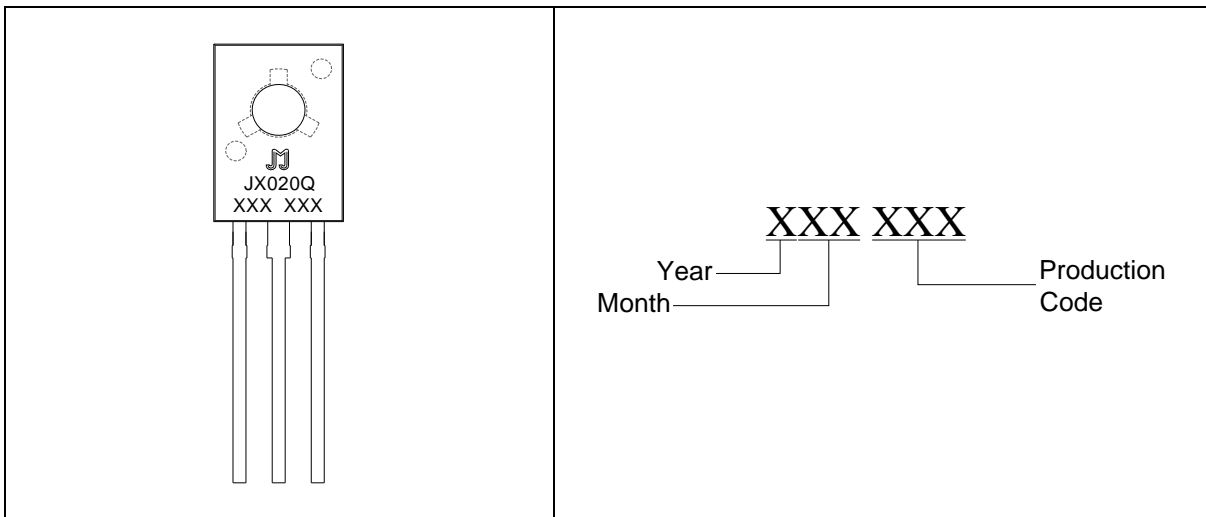
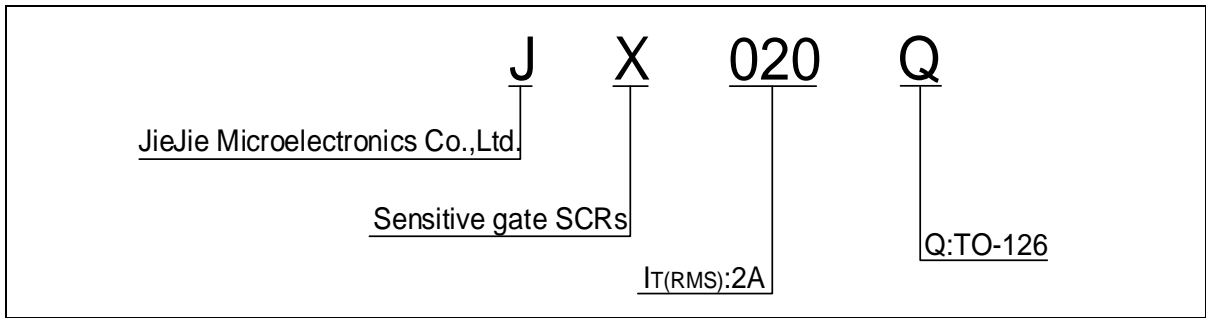
The JX020Q SCR provides high dV/dt rate with strong resistance to electromagnetic interface. It is especially recommended for use on residual current circuit breaker, straight hair, igniter etc. Package TO-126 is RoHS compliant.

Symbol	Value	Unit
$I_{T(RMS)}$	2	A
V_{DRM} / V_{RRM}	600	V
I_{GT}	200	μA



Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	$^{\circ}C$
Operating junction temperature range	T_j	-40-125 ^①	$^{\circ}C$
Repetitive peak off-state voltage ($T_j=25^{\circ}C$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^{\circ}C$)	V_{RRM}	600	V
Average on-state current ($T_c \leq 101^{\circ}C$)	$I_{T(AV)}$	1.3	A
RMS on-state current ($T_c \leq 101^{\circ}C$)	$I_{T(RMS)}$	2	A
Non repetitive surge peak on-state current ($t_p=10ms, T_j=25^{\circ}C$)	I_{TSM}	20	A
Non repetitive surge peak on-state current ($t_p=8.3ms, T_j=25^{\circ}C$)		22	
I^2t value for fusing ($t_p=10ms, T_j=25^{\circ}C$)	I^2t	2	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}, f=100Hz, T_j=125^{\circ}C$)	di/dt	50	$A/\mu s$
Peak gate current ($t_p=20\mu s, T_j=125^{\circ}C$)	I_{GM}	1.2	A
Average gate power dissipation ($T_j=125^{\circ}C$)	$P_{G(AV)}$	0.2	W

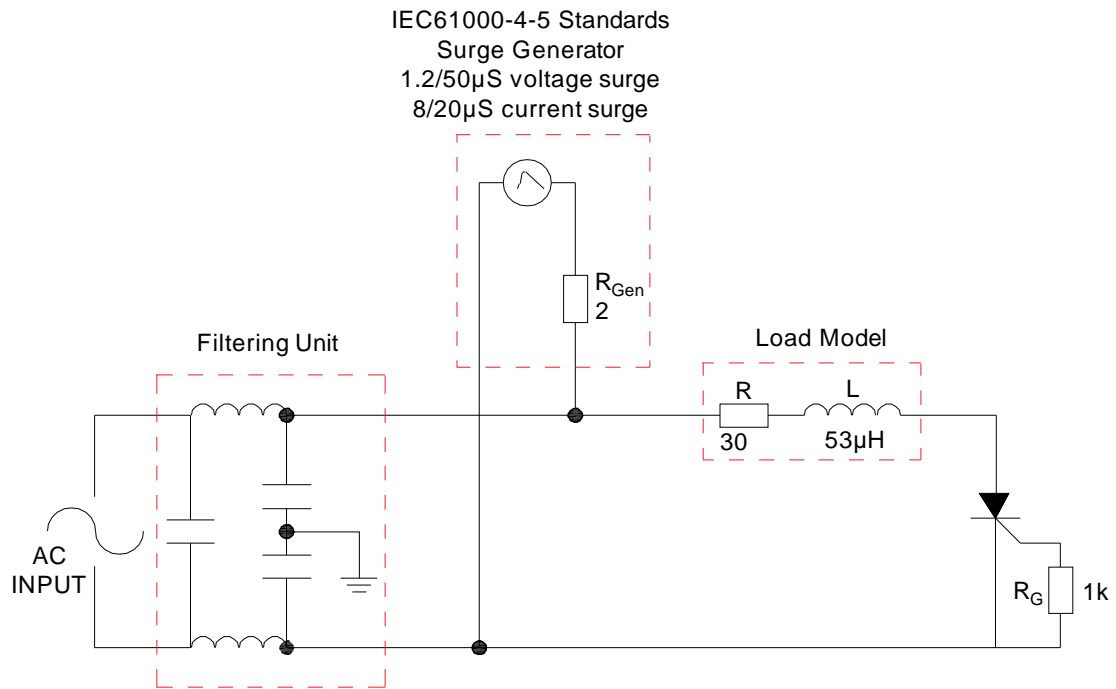
JX020Q



JX020Q

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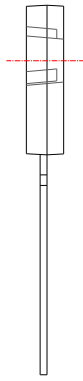
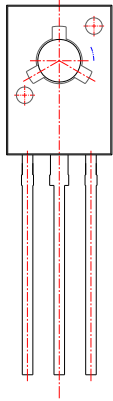
FIG.7: Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.




Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(μA)	Package	Base qty. (pcs)	Delivery mode
JX020Q	600	≤200	TO-126	500	Bulk Pack

Document Revision History

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last update



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