JX020Q 2A Sensitive SCR

Rev.A.1.0

DESCRIPTION:

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.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	2	A
V_{DRM} /V_{RRM}	600	V
I_{GT}	Ò200	εA

ABSOLUTE MAXIMUM RATINGS

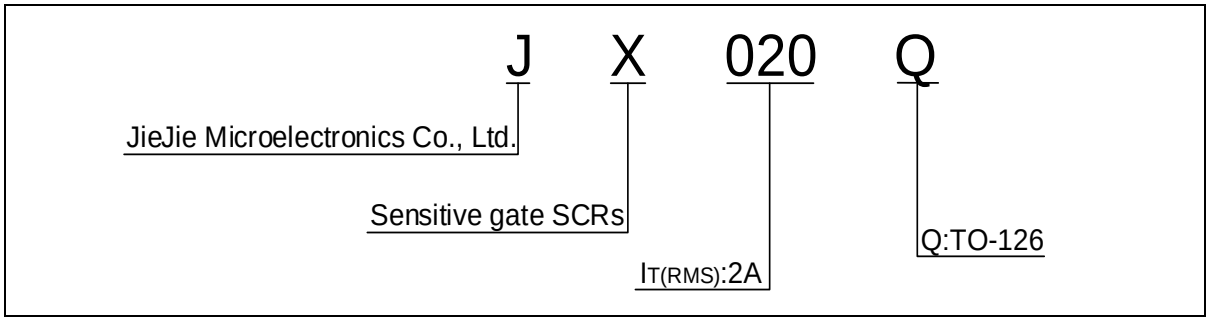
Parameter	Symbol	Value	Unit
Storage junction temperature range	[redacted]	[redacted]	[redacted]
Operating junction temperature range	T_j	-40-125 ^{7}	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	600	V

[redacted]

Peak gate power	P_{GM}	2	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	0.5	kV

NOTE 1: Operating junction temperature T_j is up to 125 when a resistor Ò1kq is connected between Gate and Cathode. Without this resistor, the T_j is up to 110

ORDERING INFORMATION



MARKING

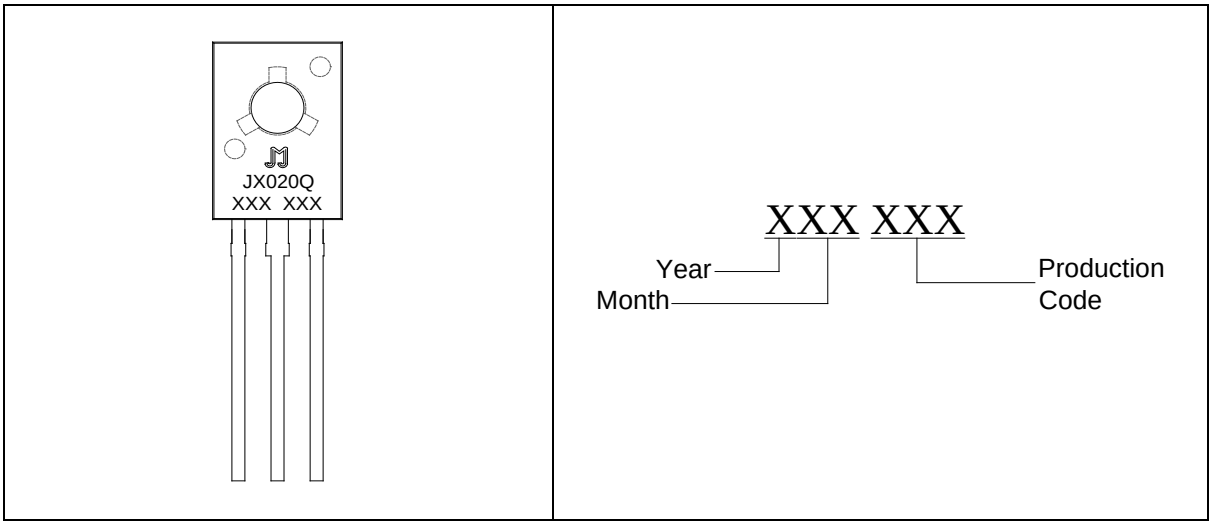


FIG.1: Maximum power dissipation versus RMS on-state current

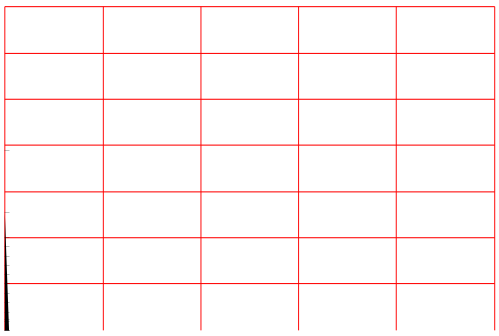


FIG.2: RMS on-state current versus case temperature

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



ORDERING INFORMATION

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

Document Revision History

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

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