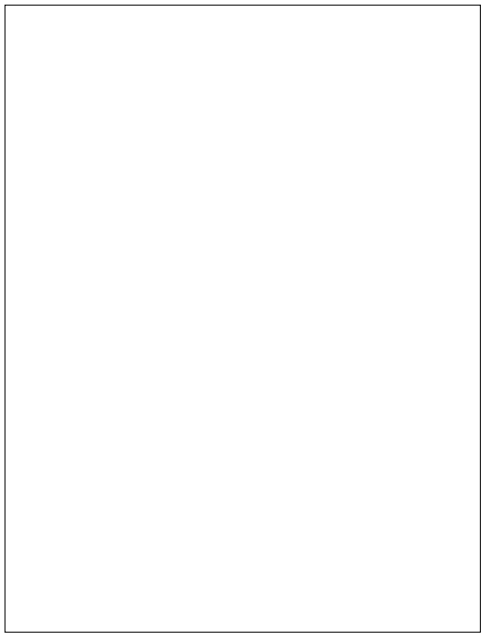
JX080K 8A Sensitive SCR

Rev.A.1.1

DESCRIPTION:

The JX080K 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-252 is RoHS compliant.



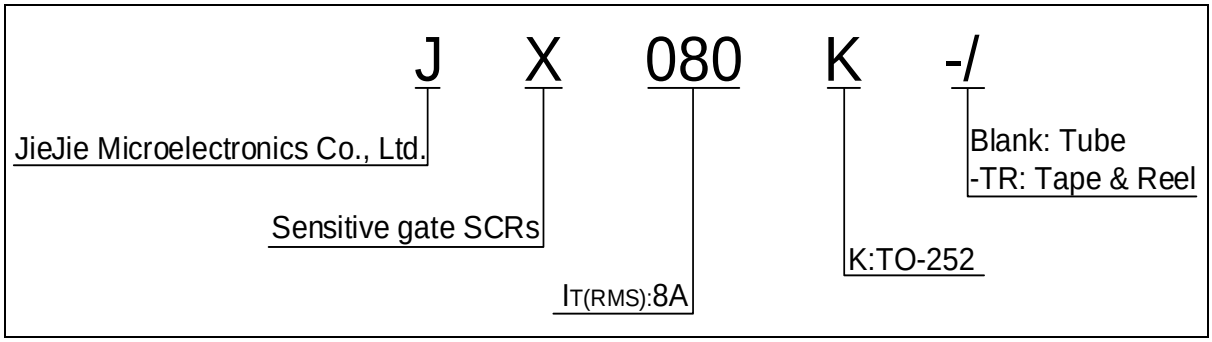
MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	8	A
V_{DRM} /V_{RRM}	800	V
I_{GT}	”200	A

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-110	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
Average on-state current (T_C 0 55)	$I_{T(AV)}$	5	A
RMS on-state current (T_C 055)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (t_p=10ms , T_j=25)	I_{TSM}	80	A
Non repetitive surge peak on-state current (t_p=8.3ms , T_j=25)		88	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	32	A^2s
Critical rate of rise of on-state current (I_G=2× I_{GT} , f=100Hz , T_j=110)	dI/dt	100	A s
Peak gate current (t_p=20 s, T_j=110)	I_{GM}	4	A
Average gate power dissipation (T_j=110)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W

ORDERING INFORMATION



MARKING

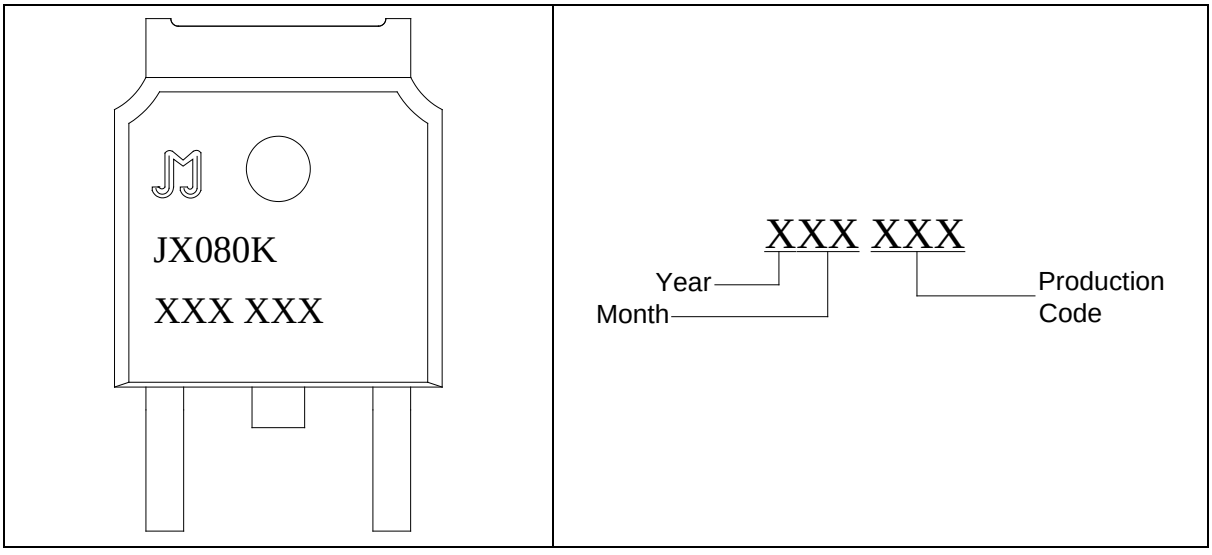
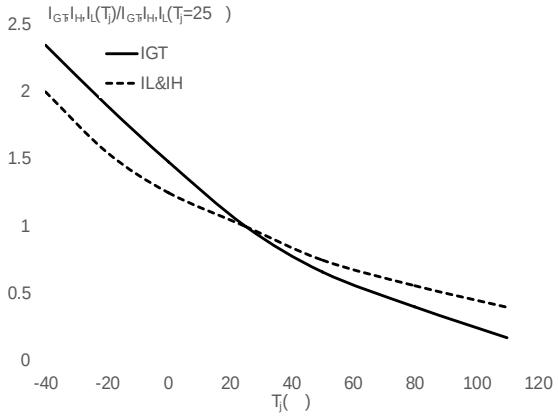


FIG.1:

FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT**(μA)**	Package	Base qty. (pcs)	Delivery mode
JX080K	800	**≤200**	TO-252	80	Tube
JX080K-TR				2,500	Tape & Reel

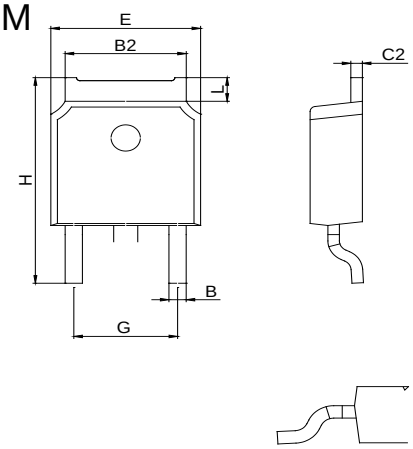
Document Revision History

Date	Revision	Changes
May 18, 2023	A.1.0	Last update
Oct.22, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGrXIœ‰ ¨„ql¨ƒ• h , ÀDÎ®íOnsions

llimeters Inches

Typ. Mx. M



				in.	Typ.	Mx.
A	2.10		2.50	0.083		0.098
A2	0		0.15	0		0.006
B	0.66		0.86	0.026		0.034
B2	5.18		5.48	0.202		0.216
C	0.40		0.60	0.016		0.024
C2	0.44		0.58	0.017		0.023
D	5.90		6.30	0.232		0.248
D1						
	6.40		6.80	0.252		0.268
	4.63			0.182		
G	4.47		4.67	0.176		0.184
G1	2.18		2.38	0.086		0.094
L	1.09		1.21	0.043		0.048
L2	1.35		1.65	0.053		0.065

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