



JCT1240SJ 40A SCR

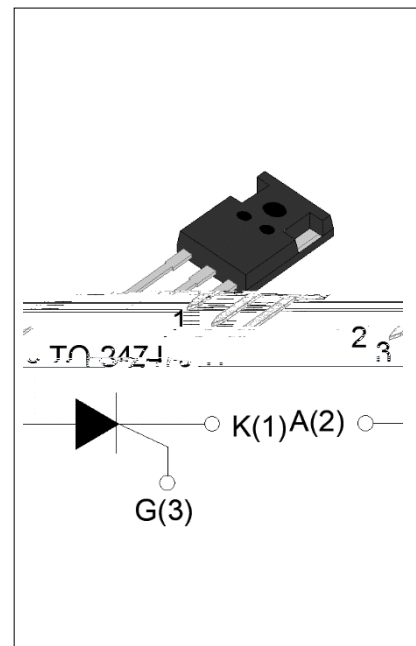
Rev.A.2.1

DESCRIPTION:

1240SJ is a 40A SCR with a peak forward current of 45A and a peak reverse current of 25A. It is suitable for use in a wide range of applications.

MAIN FEATURES

Parameter	Value	Unit
I_{GT}	40	A
V_{RM}/V_{FM}	1200	V
I_{TG}	45	A



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage temperature	T_{stg}	-40-150	
Junction temperature	T_j	-40-125	
Peak reverse voltage (T _j ≤25℃)	V_{RM}	1200	V
Peak forward voltage (T _j ≤25℃)	V_{FM}	1200	V
Peak forward current (T _j ≤78℃)	I_{FM}	25	A
Peak forward current (T _j ≤78℃)	I_{FM}	40	A
Non-repetitive peak forward current (t _p ≤10μs, T _j ≤25℃)	I_{FRM}	500	A
Non-repetitive peak forward current (t _p =8.3μs, T _j ≤25℃)		540	
Forward surge current (t _p ≤10ms, T _j ≤25℃)	I_{FSM}	1250	A ² s
Forward surge current (I _G ≥2×I _{GT} , t _p ≤10ms, T _j ≤25℃)	I_{FSM}	200	A s
Peak forward current (t _p ≤20ms, T _j ≤25℃)	I_{FM}	10	A
Power dissipation (T _j ≤25℃)	P_{GM}	1	W

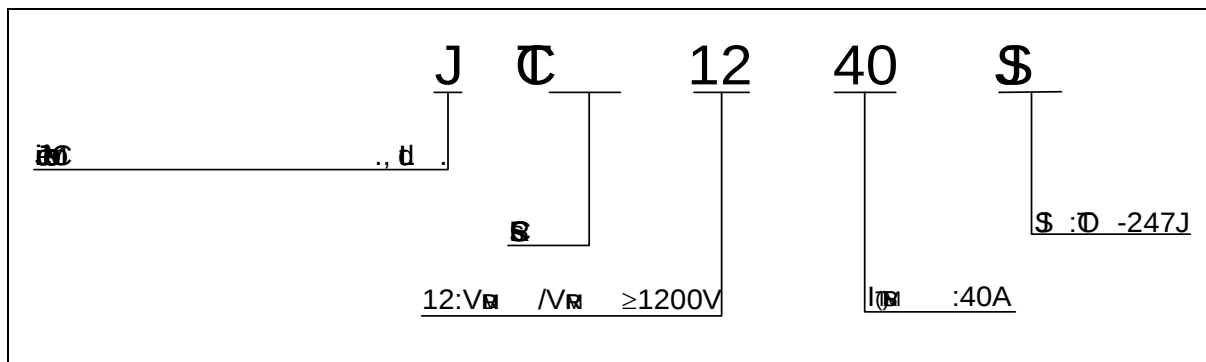
P_D	P_D	20	W
V_{DS} (T_{j25} ; $R_{\theta JA}$ -15 -15)	V_p	0.7	V

ELECTRICAL CHARACTERISTICS

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	

I_G	$V_D \pm 2V$ L_{33}	-	-	45	μA (I
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ORDERING INFORMATION



MARKING

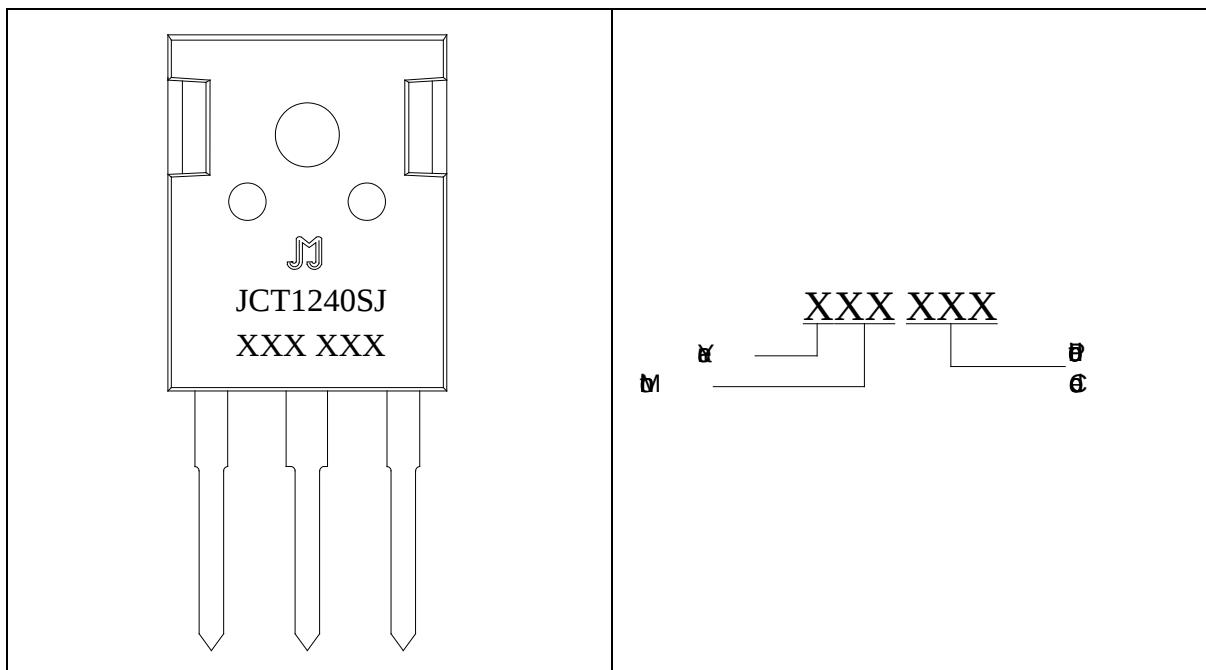
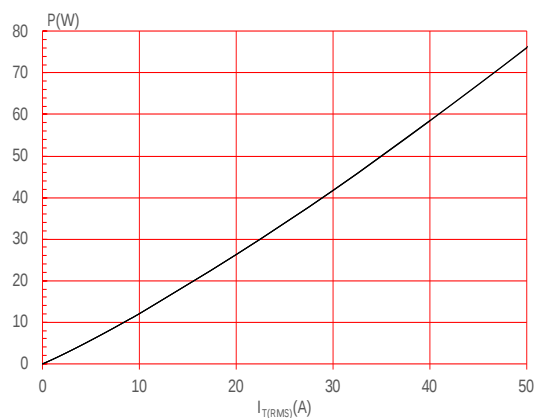
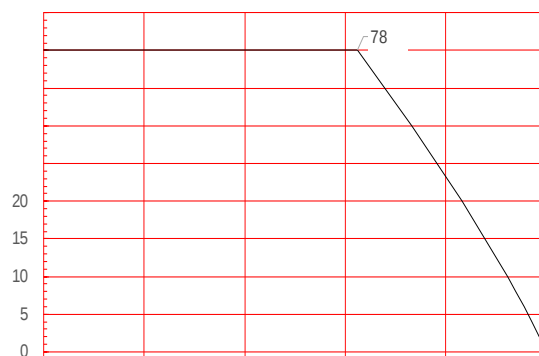
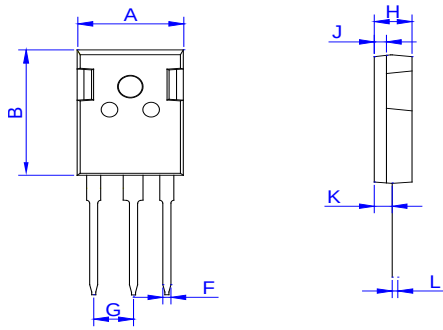


FIG.1:  FIG.2:  

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(
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PACKAGE MECHANICAL DATA



D	B					
	M			b		
	M	$\bar{P}$	M	M	$\bar{P}$	M
A	15.50		16.10	0.610		0.634
B	3.10		3.50	0.122		0.138
C	19.70		20.30	0.776		0.799
D	2.90		3.30	0.114		0.130
E	1.90		2.30	0.075		0.091
F	1.00		1.40	0.039		0.055
G		5.44			0.214	

H	4.80		5.20	0.189		0.205
J	1.90		2.10	0.075		0.083
K	2.20		2.50	0.087		0.098
L	0.41		0.79	0.016		0.031

