

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Guard Ring Protection
- Low Forward Voltage Drop
- For the use in Low Voltage, High Frequency Inverters
- High Surge Current Capability

MARKING

SM

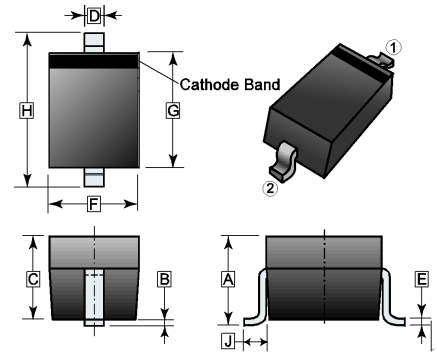
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

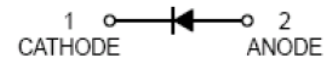
ORDER INFORMATION

Part Number	Type
SCS160WS-C	Lead (Pb)-free and Halogen-free

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05	REF.	F	1.15	1.45
B	0.20	REF.	G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475	REF.
E	0.080	0.20			



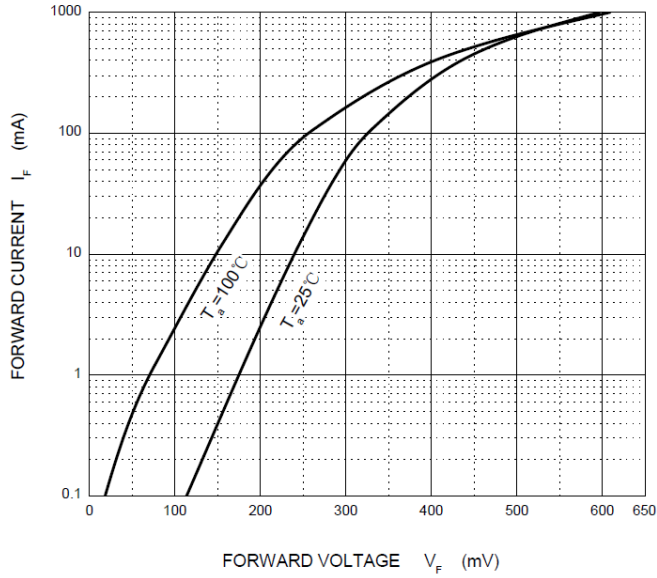
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

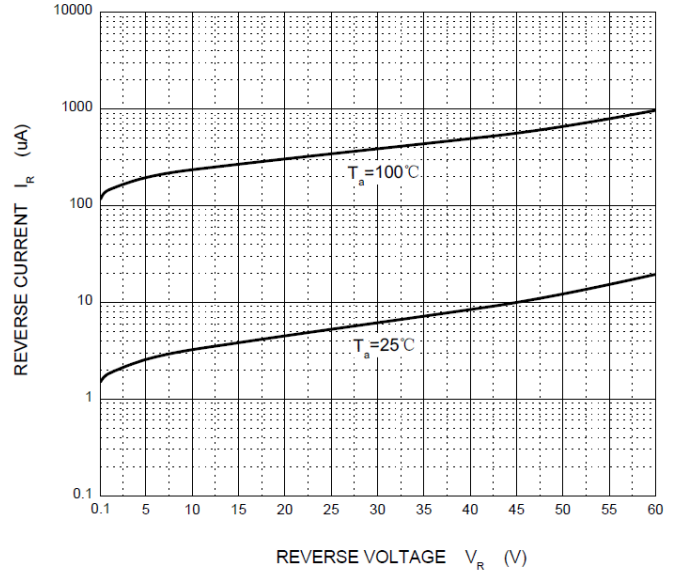
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_R	60	V
Continuous Forward Current	I_F	1	A
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @ $I_F=1A$	V_F	0.7	V
Maximum DC Reverse Current @Rated DC Blocking Voltage, $V_R=60V$	I_R	0.1	mA
Total Power Dissipation	P_D	250	mW
Total Capacitance @ $V_R=4V$, $f=1MHz$	C_J	120	pF
Typical Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	400	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	125, -55~150	°C

RATINGS AND CHARACTERISTIC CURVES

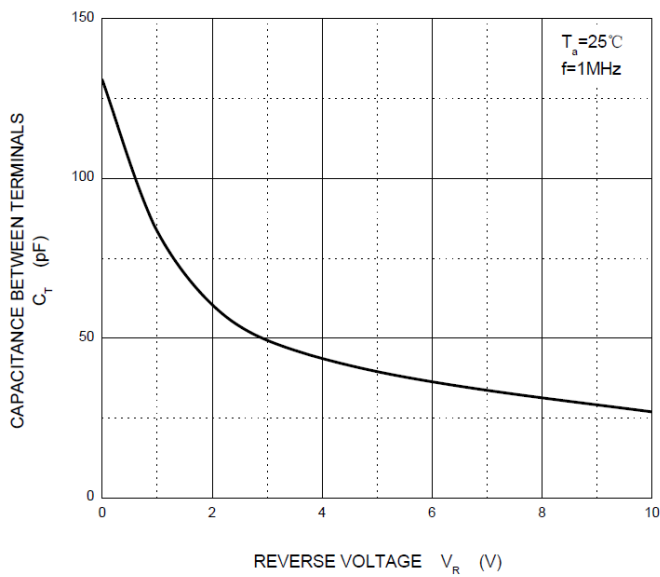
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

