

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

FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250°C for 10 Seconds at Terminals
- Low Forward Voltage

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

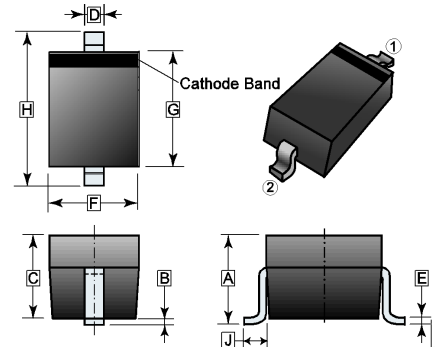
MARKING

SF

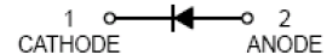
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

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			



ORDER INFORMATION

Part Number	Type
SCS0540V-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified.)

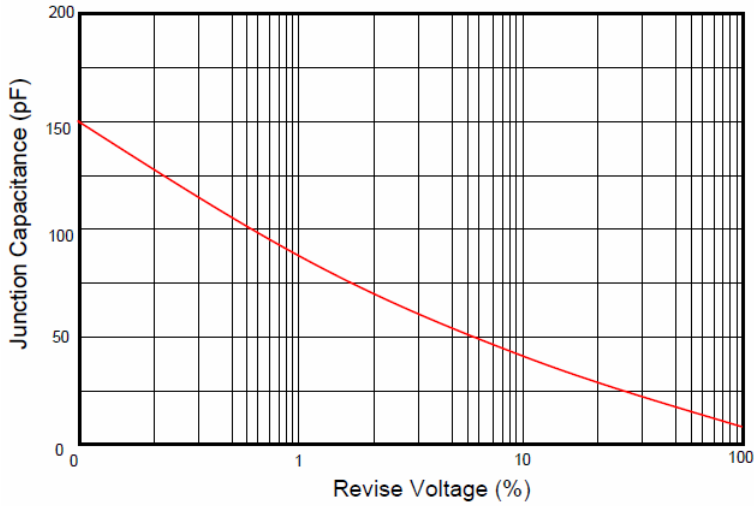
Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
Maximum DC Blocking Voltage	V _R	40	V
Average Forward Current @T _J =25°C	I _{F(AV)}	0.5	A
Peak Forward Current @8.3ms Half Sine	I _{FSM}	10	A
Maximum Instantaneous Forward Voltage @I _{FM} =0.5A	V _F	T _A =25°C	0.5
		T _A =125°C	0.38
Maximum DC Reverse Current @Rated DC Blocking Voltage	I _R	T _J =25°C	0.1
		T _J =125°C	5
Typical Junction Capacitance ¹	C _J	160	pF
Typical Thermal Resistance from Junction-Ambient ²	R _{θJA}	488	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

Notes:

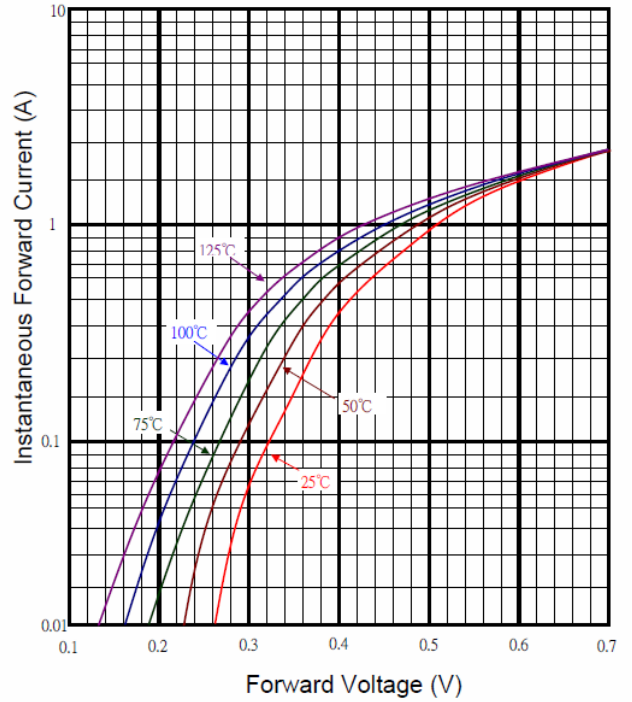
1. Measured at 1MHz and applied reverse of 0V DC.
2. FR-4 PCB, 2oz. 0.65mm×1.35mm copper pad.

RATINGS AND CHARACTERISTIC CURVES

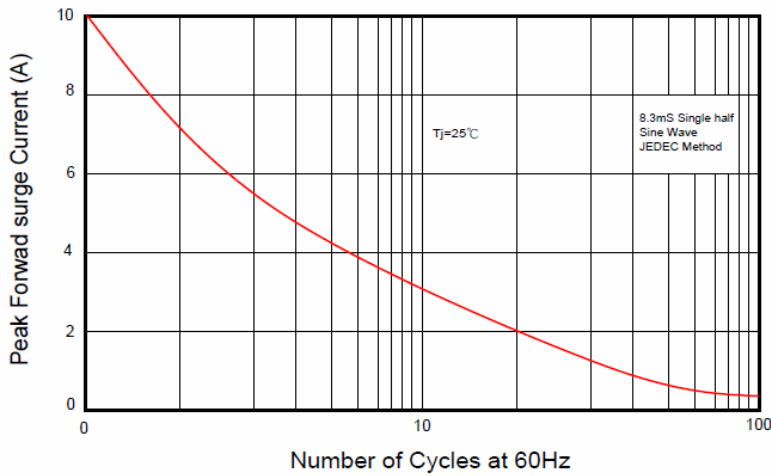
Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

