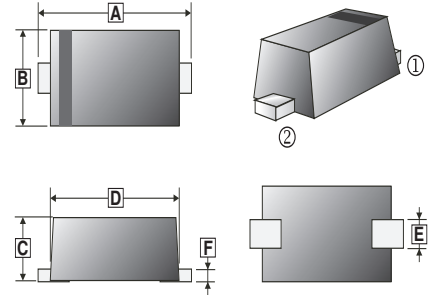


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Qualified to AEC-Q101 standards for high reliability
- Low V_F Schottky barrier diodes
- Very low profile - typical height of 1.0 mm
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C /10 seconds

SOD-323L



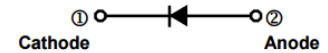
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.40	2.80	D	2.0	2.20
B	1.40	1.60	E	0.50	0.70
C	0.90	1.08	F	0.10	0.25

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323L	3K	7 inch

ORDER INFORMATION

Part Number	Type
SM1100VCR	Lead (Pb)-free
SM1100VCR-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	
Maximum DC Blocking Voltage	V _{DC}	100	
Maximum Average Forward Rectified Current	I _F	1	A
Peak Forward Surge Current @8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30	A
Maximum Instantaneous Forward Voltage @I _F =1A	V _F	0.8	V
Maximum DC Reverse Current @DC blocking voltage	I _R	20	uA
Typical Junction Capacitance @V _R =4V, f=1MHz	C _J	24	pF
Typical Thermal Resistance Junction to Mount ¹	R _{θJM}	60	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

Note:

1. The thermal resistance from junction to mount, mounted on P.C.B with 5x5mm copper pads, 20Z,FR4 PCB.

RATINGS AND CHARACTERISTIC CURVES

Figure 1. Forward Current Derating Curve

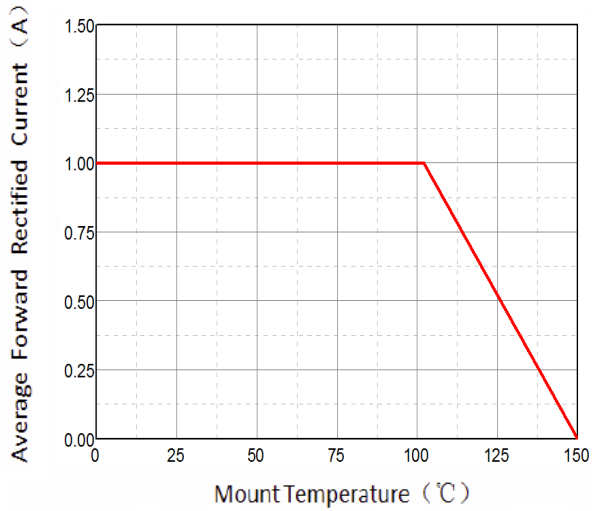


Figure 2. Typical Instantaneous Forward Characteristics

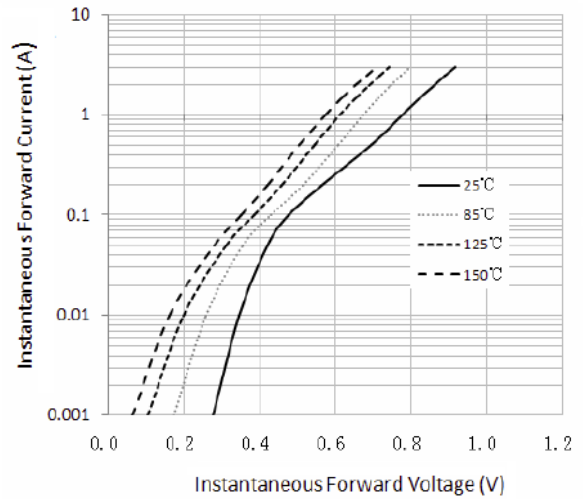


Figure 3. Typical Reverse Characteristics

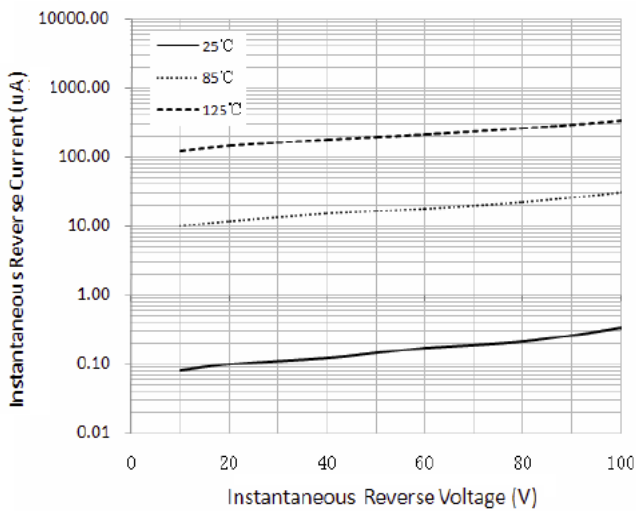


Figure 4. Typical Junction Capacitance

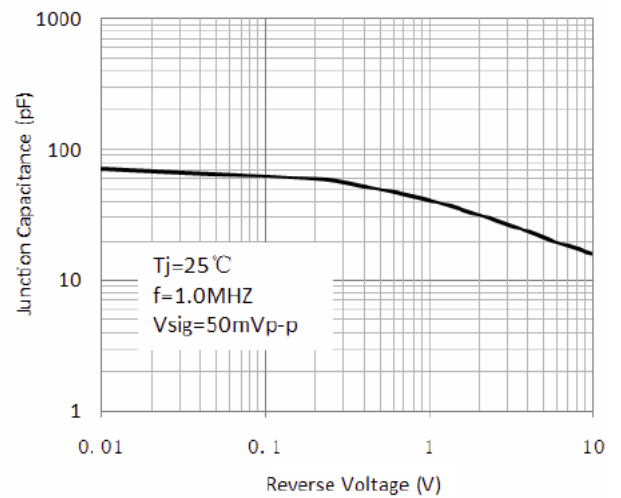


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current

