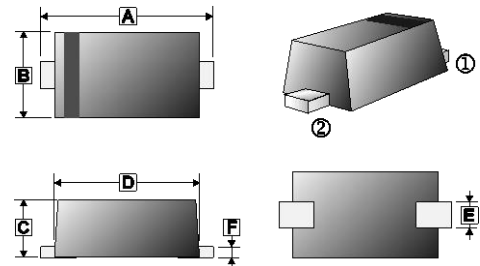


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

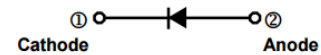
FEATURES

- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-323L



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.80	D	1.60	2.10
B	1.05	1.60	E	0.25	0.70
C	0.60	1.08	F	0.05	0.25



MARKING

SL

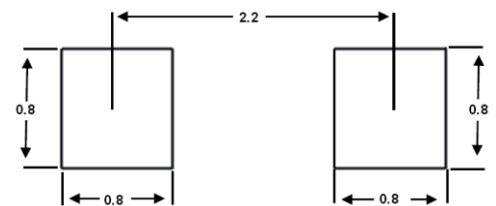
PACKAGE INFORMATION

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

ORDER INFORMATION

Part Number	Type
SM140V-C	Lead (Pb)-free and Halogen-free

Mounting Pad Layout



*Dimensions in millimeters

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

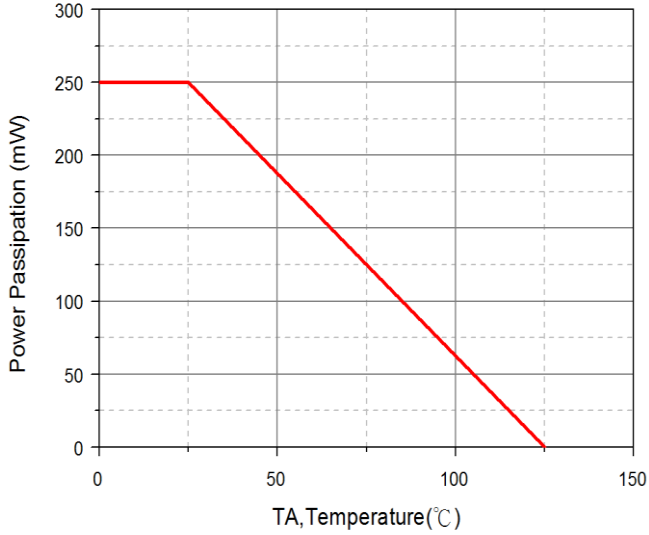
Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RM}	40	V
Average Rectified Output Current	I _O	1	A
Peak Forward Surge Current @t=8.3ms Single Half Sine-Wave	I _{FSM}	9	A
Repetitive Peak Forward Current	I _{FRM}	1.5	A
Power Dissipation	P _D	250	mW
Junction and Storage Temperature Range	T _J , T _{STG}	-55~125	°C

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

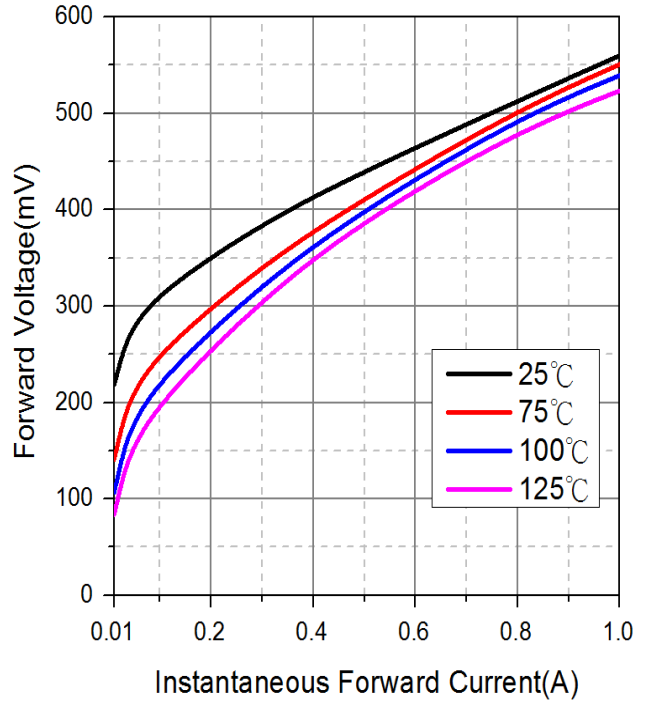
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{BR}	40	-	-	V	I _F =1mA
Reverse Leakage Current	I _R	-	-	1	mA	V _R =40V
Forward Voltage	V _F	-	-	0.6	V	I _F =1A
Diode Capacitance	C _D	-	30	-	pF	V _R =4V, f=1MHz

RATINGS AND CHARACTERISTIC CURVES

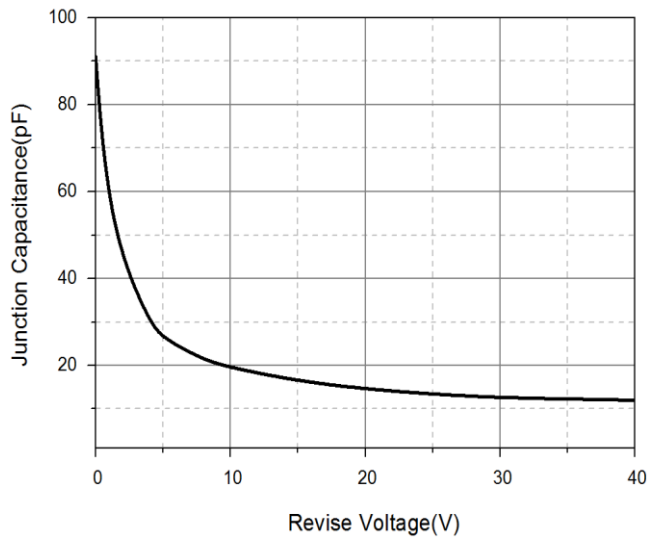
Typical Forward Current Derating Curve



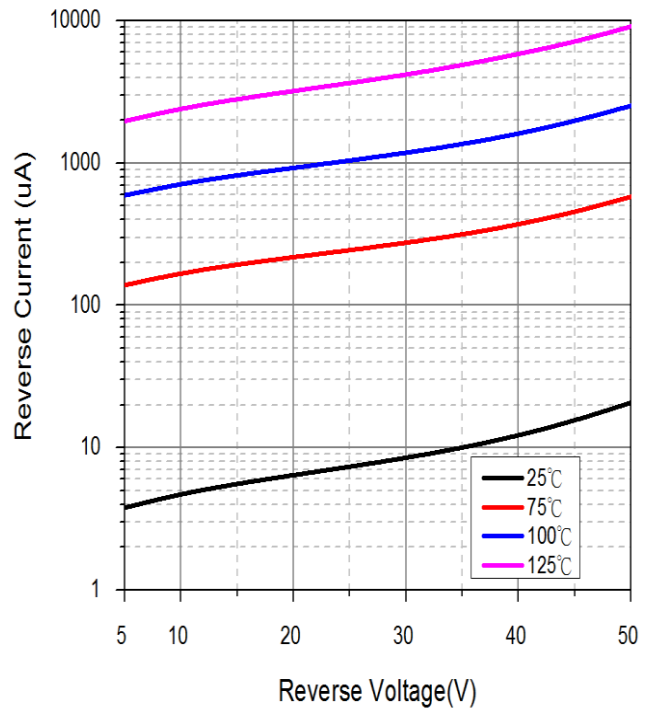
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

