

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

FEATURES

- Low reverse current
- Low forward voltage drop
- High efficiency

MARKING

14S

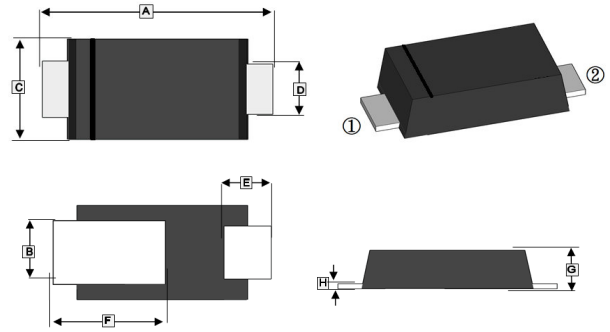
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323WT	15K	13 inch

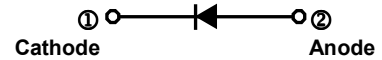
ORDER INFORMATION

Part Number	Type
SM140WT-C	Lead (Pb)-free and Halogen-free

SOD-323WT



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.70	E	0.4	0.75
B	0.75	1.00	F	1.1	1.5
C	1.20	1.40	G	0.6	0.73
D	0.55	0.75	H	0.1	0.25



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

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum Average Rectified Forward Current	I _O	1	A
Non-Repetitive Peak Forward Surge Current@ t=8.3 ms	I _{FSM}	25	A
Maximum Instantaneous Forward Voltage@ I _F =1A	V _F	0.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage@ V _R =40V	I _R	20	uA
Typical Thermal Resistance from Junction to Ambient ¹	R _{θJA}	103	°C/W
Typical Thermal Resistance from Junction to Lead ¹	R _{θJL}	24	
Junction and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

Notes:

1. The thermal resistance from junction to ambient or lead, mounted on P.C.B with 5×5mm copper pads, 2 OZ, FR4 PCB.

RATINGS AND CHARACTERISTIC CURVES

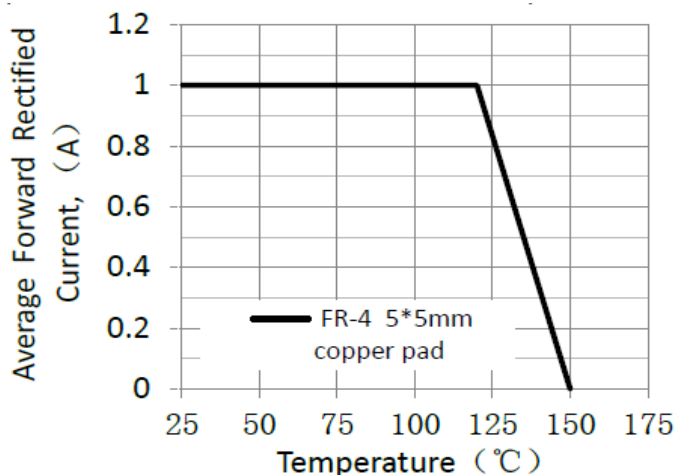


Figure 1. Forward Current Derating Curve

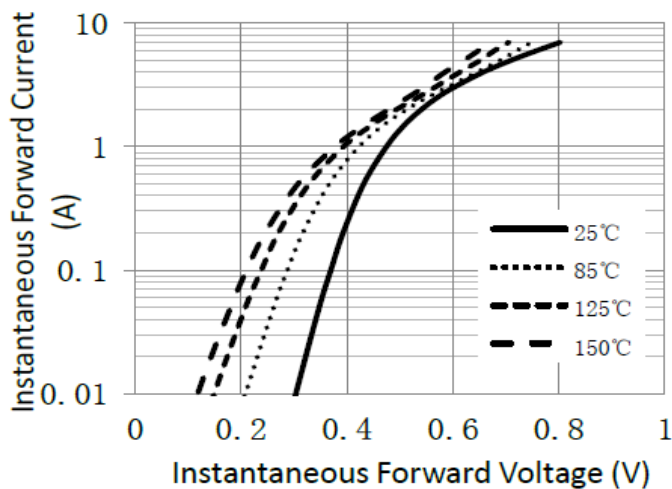


Figure 2. Typical Instantaneous Forward Characteristics

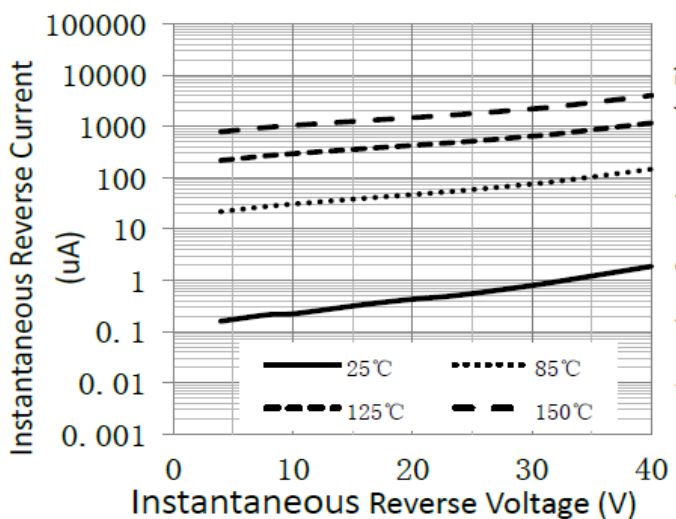


Figure 3. Typical Reverse Characteristics

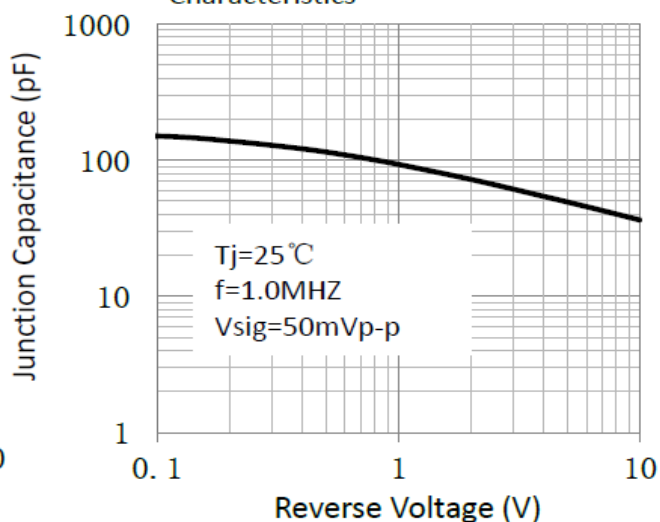


Figure 4. Typical Junction Capacitance

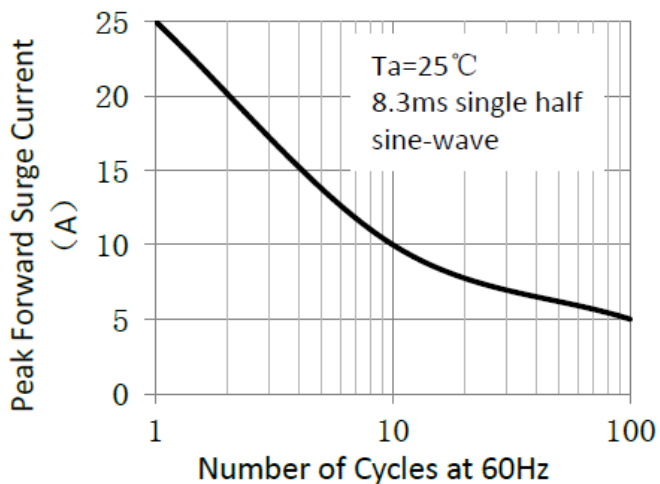


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current