

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

### FEATURES

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

**SOD-323WT**

### MARKING

16S

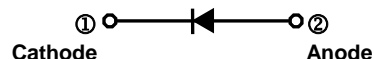


### PACKAGE INFORMATION

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

### ORDER INFORMATION

Part Number	Type
SM160WT-C	Lead (Pb)-free and Halogen-free



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Average Rectified Forward Current	I <sub>o</sub>	1	A
Non-Repetitive Peak Forward Surge Current @t=8.3 ms	I <sub>FSM</sub>	25	A
Maximum Instantaneous Forward Voltage @I <sub>F</sub> =1A	V <sub>F</sub>	0.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @V <sub>R</sub> =60V	I <sub>R</sub>	50	uA
Typical Thermal Resistance from Junction to Ambient <sup>1</sup>	R <sub>θJA</sub>	89	°C/W
Typical Thermal Resistance from Junction to Lead <sup>1</sup>	R <sub>θJL</sub>	10	
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C

Note:

1. The thermal resistance from junction to ambient or lead, mounted on P.C.B with 5x5mm copper pads, 2OZ, FR-4 PCB.

**RATINGS AND CHARACTERISTIC CURVES**

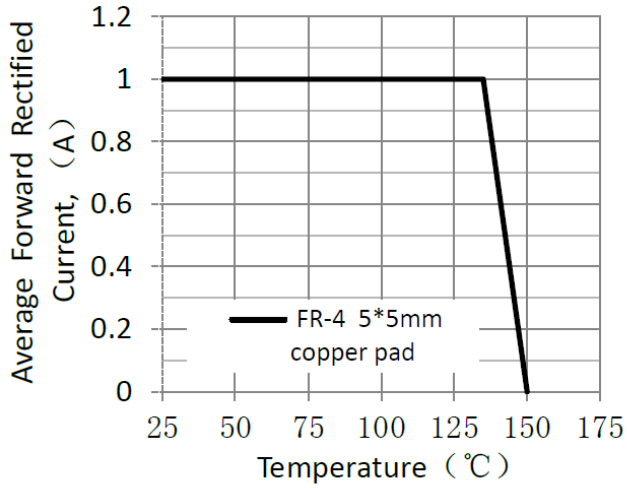


Figure 1. Forward Current Derating Curve

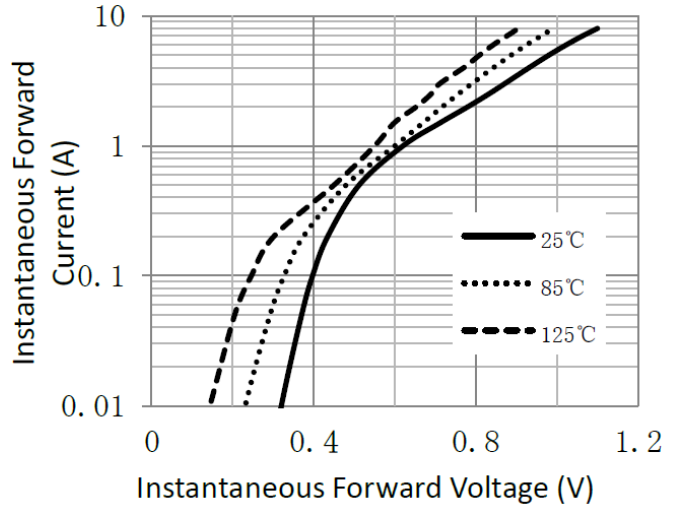


Figure 2. Typical Instantaneous Forward Characteristics

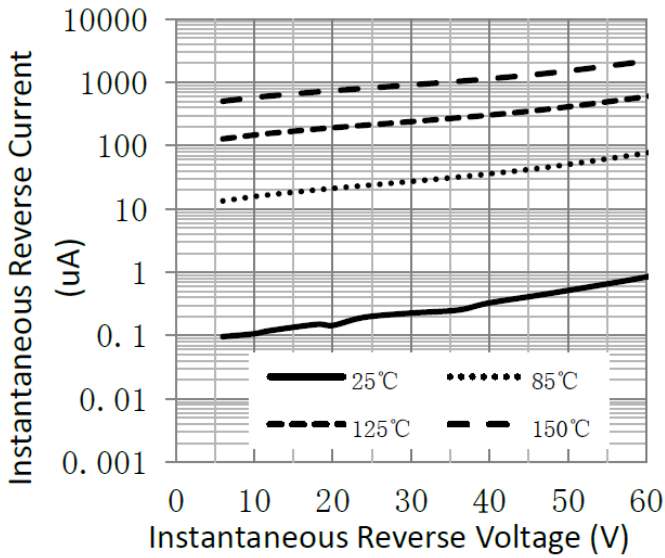


Figure 3. Typical Reverse Characteristics

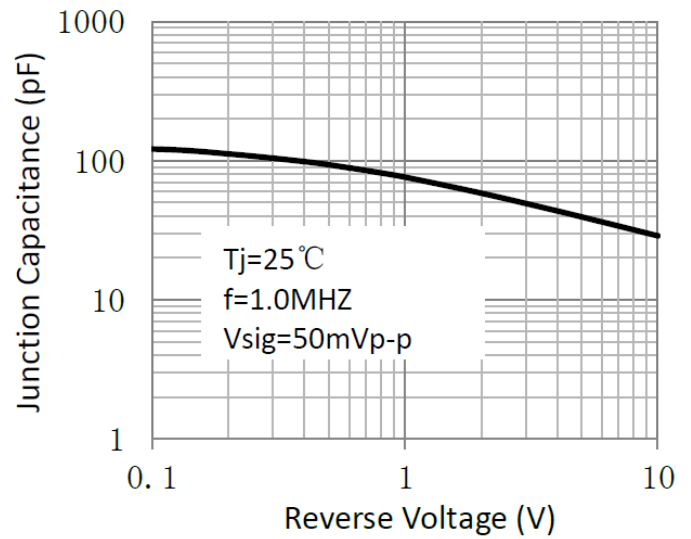


Figure 4. Typical Junction Capacitance

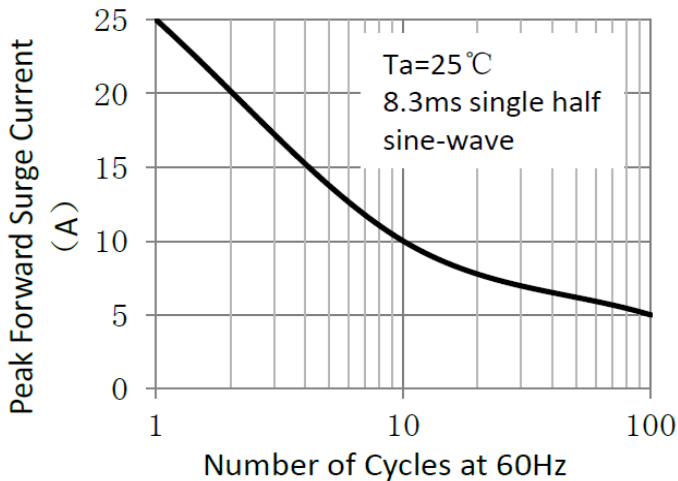
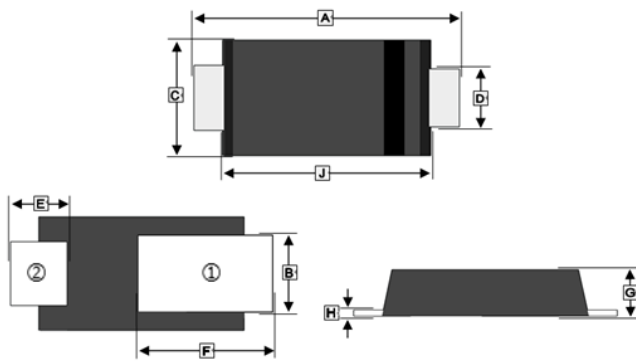


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current

**PACKAGE OUTLINE DIMENSIONS**

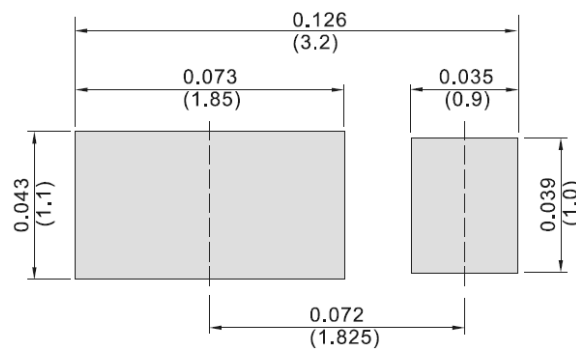
**SOD-323WT**



REF.	Millimeter	
	Min.	Max.
A	2.30	2.70
B	0.75	1.00
C	1.20	1.40
D	0.55	0.75
E	0.40	0.75
F	1.10	1.50
G	0.60	0.73
H	0.10	0.25
J	2.10	2.30

**MOUNTING PAD LAYOUT**

**SOD-323WT**



\*Dimensions in millimeters