

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

### FEATURES

- Low  $V_F$  Schottky Barrier Diodes
- Very Low Profile-Typical Height of 0.65mm
- Low Forward Voltage Drop
- Moisture Sensitivity: Level 1, per J-STD-020
- High Temperature Soldering Guaranteed: 260°C/10s

**SOD-323WT**



### MARKING

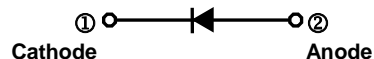
24SL

### PACKAGE INFORMATION

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

### ORDER INFORMATION

Part Number	Type
SM240WT-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>	40	V	
Maximum RMS Voltage	V <sub>RMS</sub>	28		
Maximum DC Blocking Voltage	V <sub>DC</sub>	40		
Maximum Average Rectified Forward Current (Fig.1)	I <sub>F</sub>	2	A	
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	35	A	
Maximum Instantaneous Forward Voltage @I <sub>F</sub> =1A	V <sub>F</sub>	0.45	V	
Maximum Instantaneous Forward Voltage @I <sub>F</sub> =2A		T <sub>A</sub> =25°C		0.52
		T <sub>A</sub> =125°C		0.51
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	T <sub>A</sub> =25°C	150	uA
		T <sub>A</sub> =125°C	50	mA
Typical Junction Capacitance <sup>1</sup>	C <sub>J</sub>	66	pF	
Typical Thermal Resistance from Junction-Ambient <sup>2</sup>	R <sub>θJA</sub>	90	°C/W	
Typical Thermal Resistance from Junction-Lead <sup>2</sup>	R <sub>θJL</sub>	35		
Junction & Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~125	°C	

Notes:

1. Measured at f=1MHz, V<sub>R</sub>=4V
2. Mounted on P.C.B with 5x5mm copper pads, 2oz, FR-4 PCB.

**RATINGS AND CHARACTERISTIC CURVES**

Figure 1. Forward Current Derating Curve

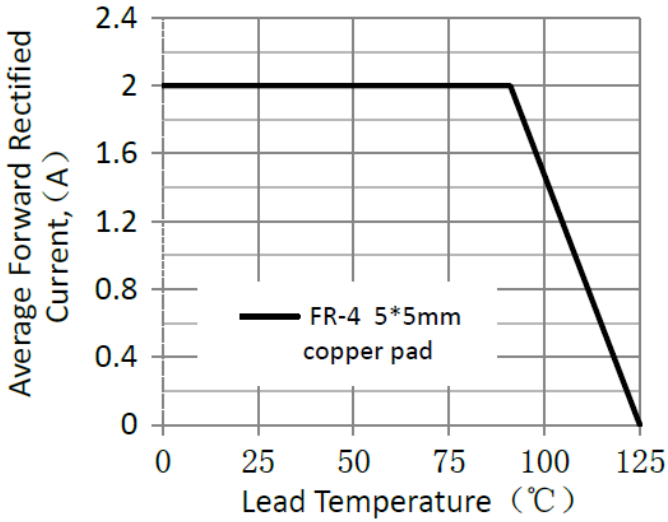


Figure 2. Typical Instantaneous Forward Characteristics

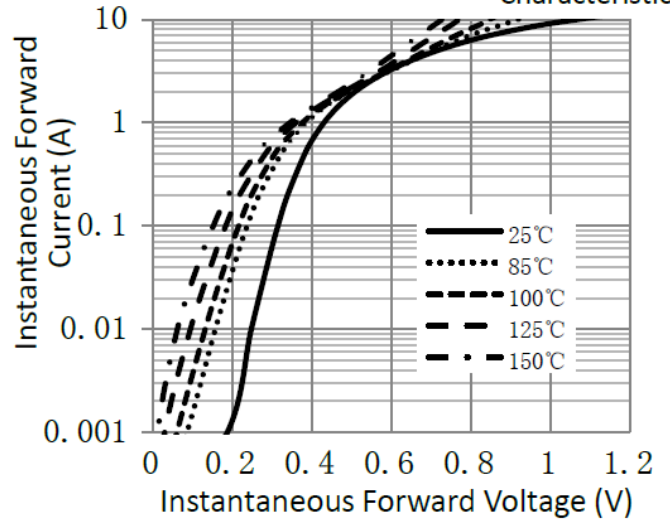


Figure 3. Typical Reverse Characteristics

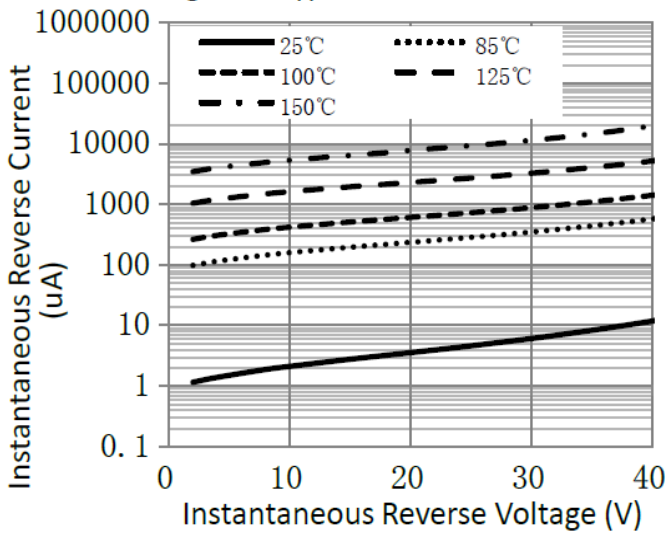


Figure 4. Typical Junction Capacitance

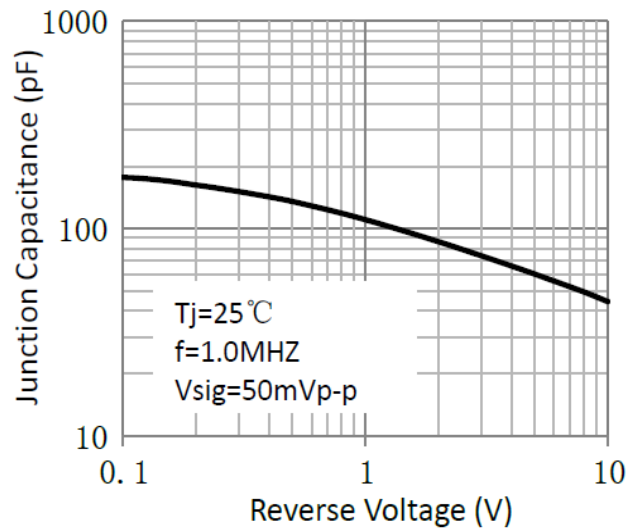
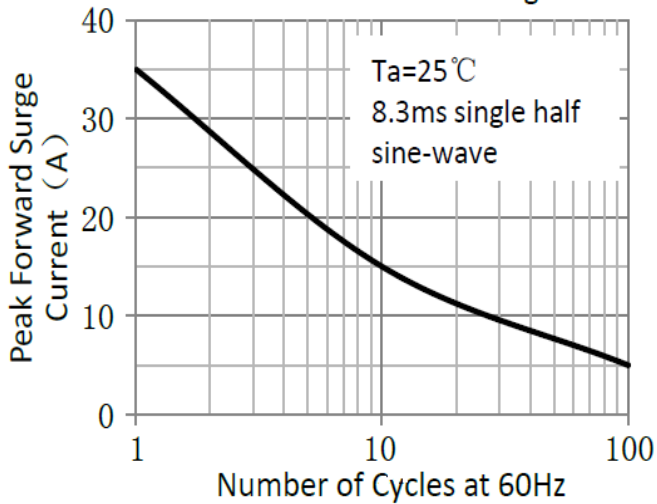
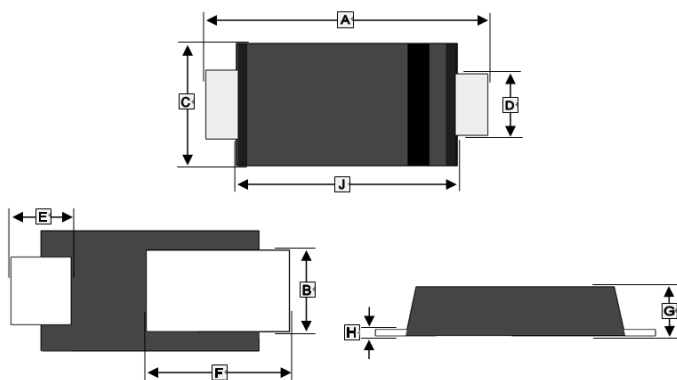


Figure 5. Maximum Non-Repetitive Peak Forward Surge Current



**PACKAGE OUTLINE DIMENSIONS**

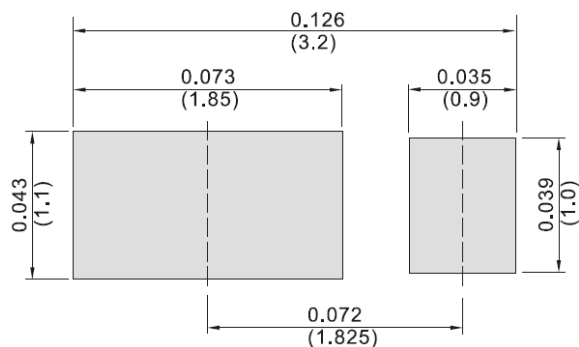
**SOD-323WT**



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