Elektronische Bauelemente

SM240WT-C

2A, 40 V

Surface Mount Schottky Barrier Rectifiers

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

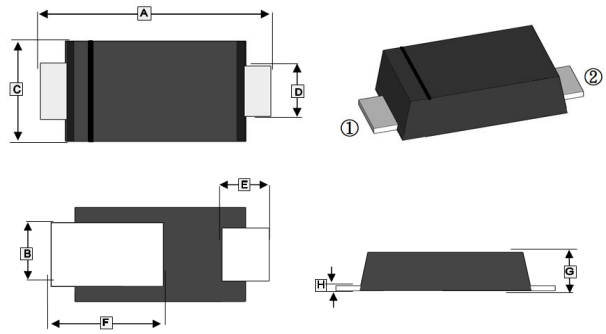
FEATURES

- Low reverse current
- Low forward voltage drop
- Low Profile: Typical 0.65mm

MARKING

24SL

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

Cathode **Anode**

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_A=25℃ unless otherwise specified.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum Average Rectified Forward Current	I_O	2	A
Non-Repetitive Peak Forward Surge Current@ t=8.3 ms	I_{FSM}	35	A
Maximum Instantaneous Forward Voltage@ I_F=2A	V_F	0.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	100	uA
Typical Junction Capacitance [1]	C_J	155	pF
Typical Thermal Resistance from Junction to Ambient [2]	$R_{\theta JA}$	106	℃/W
Typical Thermal Resistance from Junction to Lead [2]	$R_{\theta JL}$	24	
Junction and Storage Temperature Range	T_J, T_{STG}	-55~125	℃

Notes:
1. Measured at f=1.0MHz, V_R=4.0V
2. Mounted on P.C.B with 5×5mm copper pads, 2OZ FR4 PCB.

RATINGS AND CHARACTERISTIC CURVES

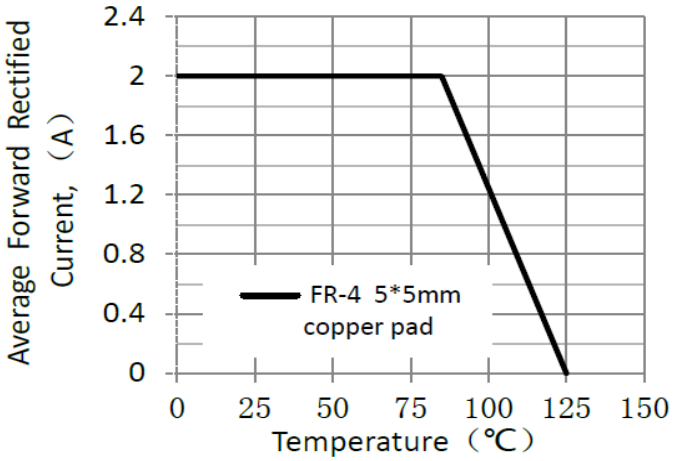


Figure 1.Forward Current Derating Curve

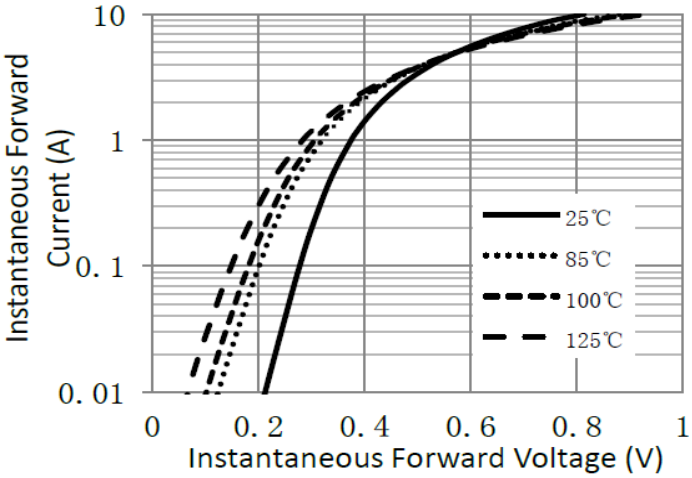


Figure 2. Typical Instantaneous Forward Characteristics

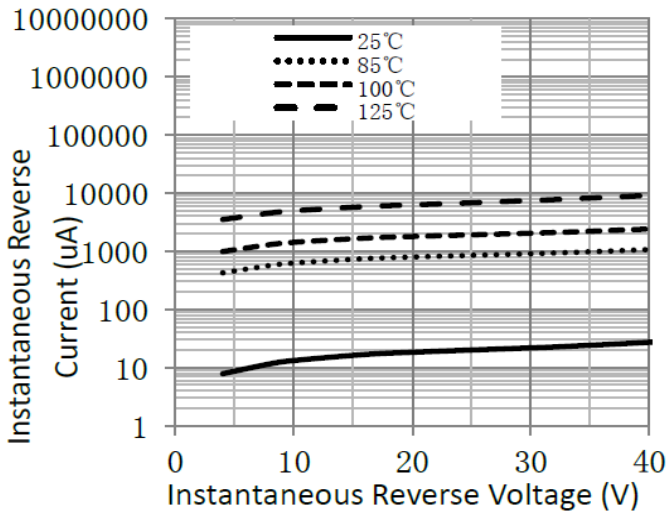


Figure 3. Typical Reverse Characteristics

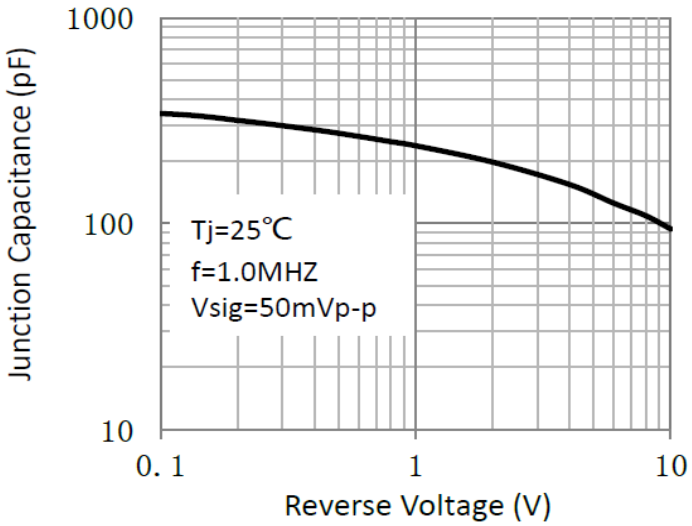


Figure 4. Typical Junction Capacitance

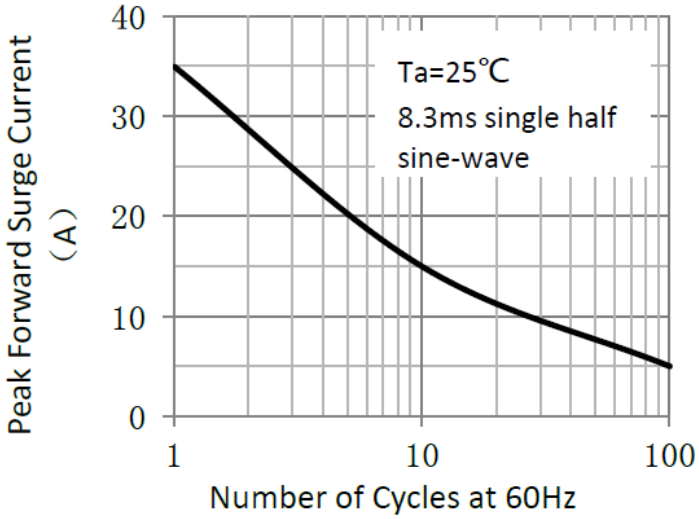


Figure 5.Maximum Non-Repetitive Peak Forward Surge Current