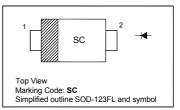
Surface Mount Schottky Barrier Diode

Features

- Very low forward voltage
- High Current Capability
- Halogen and Antimony Free(HAF),RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	20	V
Working Peak Reverse Voltage	V_{RWM}	20	V
DC Reverse Voltage	V_R	20	V
Average Rectified Forward Current	I _{F(AV)}	0.5	Α
Peak Forward Surge Current (8.3 ms Single Half Sine-wave)	I _{FSM}	20	Α
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	340	°C/W
Thermal Resistance Junction to Lead	$R_{ heta JL}$	150	°C/W
Junction Temperature	T _j	- 65 to + 150	°C
Storage Temperature	T _{stg}	- 65 to + 150	°C

 $^{^{1)}\}mbox{Following}$ any rated load condition and with rated $\mbox{V}_{\mbox{\scriptsize RRM}}$ applied.

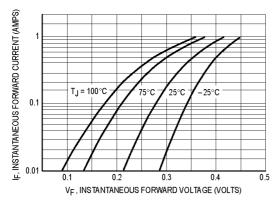
Characteristics at T_a = 25℃

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1 \text{ A}$, $T_j = 25^{\circ}\text{C}$ at $I_F = 0.5 \text{ A}$, $T_j = 25^{\circ}\text{C}$ at $I_F = 0.1 \text{ A}$, $T_j = 100^{\circ}\text{C}$ at $I_F = 0.5 \text{ A}$, $T_j = 100^{\circ}\text{C}$	V _F	0.375 0.44 0.26 0.36	V
Reverse Current at $V_R = 10 \text{ V}$, $T_j = 25^{\circ}\text{C}$ at $V_R = 20 \text{ V}$, $T_j = 25^{\circ}\text{C}$ at $V_R = 10 \text{ V}$, $T_j = 100^{\circ}\text{C}$ at $V_R = 20 \text{ V}$, $T_j = 100^{\circ}\text{C}$	I _R	40 150 3 7	μΑ μΑ mΑ mA
Total Capacitance at V_R = 5 V (test signal range 100 KHz to 1 MHz), T_j = 25 °C	C _{tot}	110	pF











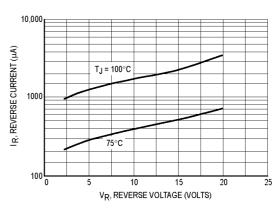


Figure 2. Typical Reverse Current

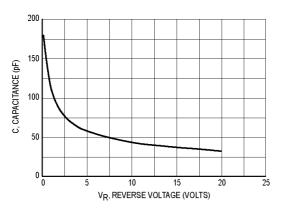


Figure 3. Typical Capacitance

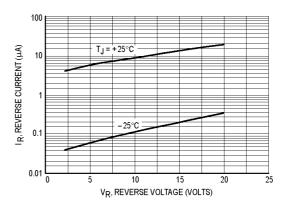


Figure 4. Typical Reverse Current



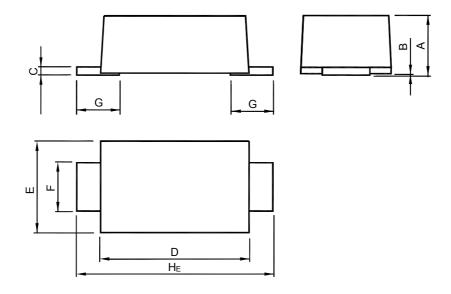




PACKAGE OUTLINE

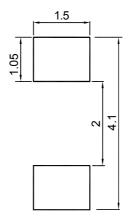
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	Α	В	С	D	E	F	G	H_{E}
	1.08	0.1	0.2	2.9	1.9	1.1	0.9	3.9
	0.88	0	0.1	2.6	1.7	0.8	0.7	3.5

Recommended Soldering Footprint



Packing information

Package Tape Wid	Tape Width	Pitch		Reel Size		Per Reel Packing Quantity
1 ackage	(mm)	mm	inch	mm	inch	Tel Neel Lacking Quantity
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000





