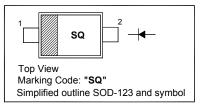
Surface Mount Schottky Barrier Diode

Features

- · Low forward voltage
- · High conductance

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25 \, ^{\circ}$ C)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Reverse Voltage	V _R	40	V
Average Rectified Forward Current	I _{F(AV)}	500	mA
Non-Repetitive Peak Forward Surge Current (Half Wave, Single Phase, 60 Hz)	I _{FSM}	5.5	А
Thermal Resistance Junction to Lead 1)	R _{eJL}	118	°C/W
Thermal Resistance Junction to Ambient 2)	R _{eJA}	206	°C/W
Operating Junction Temperature Range	T _j	- 65 to + 150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

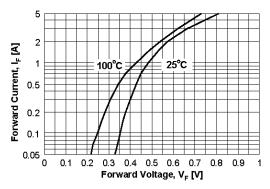
Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 0.5 A at I_F = 1 A at I_F = 0.5 A, T_a = 100 °C at I_F = 1 A, T_a = 100 °C	V _F	0.51 0.62 0.46 0.61	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 40 \text{ V}$ at $V_R = 20 \text{ V}$, $T_a = 100 ^{\circ}\text{C}$ at $V_R = 40 \text{ V}$, $T_a = 100 ^{\circ}\text{C}$	I _R	10 20 5 13	μΑ μΑ mA mA



Dated: 27/09/2010 Rev:01

¹⁾ Device mounted on FR-4 PCB 0.013 mm.
2) 1 inch" pad size (1 X 0.5 inch for each lead) on FR4 board.



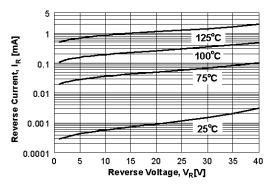


Figure 1. Forward Voltage Characteristics

Figure 2. Reverse Current vs Reverse Voltage

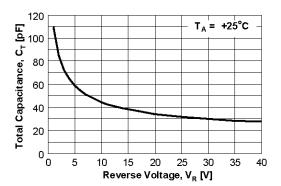


Figure 3. Total Capacitance



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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

