



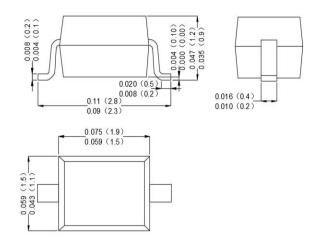
#### SCHOTTKY BARRIER DIODE

#### **Features**

- Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- · High Surge Current Capability

### **Mechanical Data**

- Case:Molded Plastic,SOD-323
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026
- · Mounting Position : Any.
- · Marking: SM



SOD-323

Dimensions in inches and (millimeters)

# Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS Voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	VDC	60	V
Average forward current	lf(AV)	1	А
Peak Forward Surge Current	I <sub>FSM</sub>	10	А
Junction Temperature	T <sub>J</sub>	-65 ~ +125	°C
Storage Temperature Range	Tstg	-65 ~ +150	°C

### Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

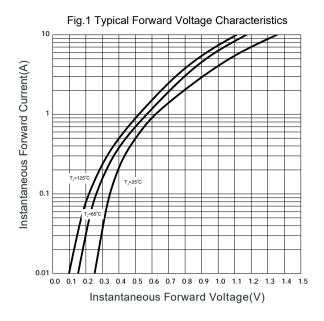
Parameter	Symbol	Max.	Unit
Average Forward Current Tc= 90°C	l <sub>F(AV)</sub>	1.0	А
Peak Forward Surge Current 8.3ms, half sine	I <sub>FSM</sub>	10	А
Maximum Instantaneous Forward Voltage $I_{FM} = 1A$ ; $T_J = 25^{\circ}C$ (Note 1)	V <sub>F</sub>	0.70	V
Maximum DC Reverse Current At Rated DC Blocking Voltage $T_A = 25^{\circ}C$	I <sub>R</sub>	0.1	mA
Typical junction capacitance  Measured at  1.0MHz , V <sub>R</sub> =4.0V	CJ	120	PF

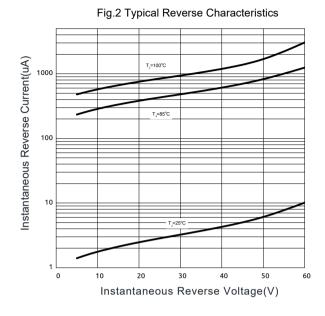
Notes: 1. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

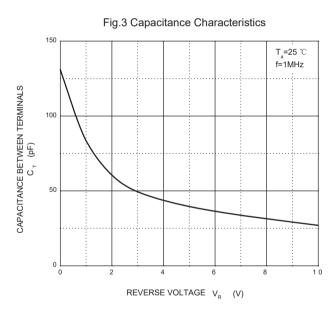
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## **Rating And Characteristic Curves**







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