



DATA SHEET

SS0520~SS0540

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 20 to 40 Volts **CURRENT** 0.50 Amperes

SOD-123

Unit: inch (mm)

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

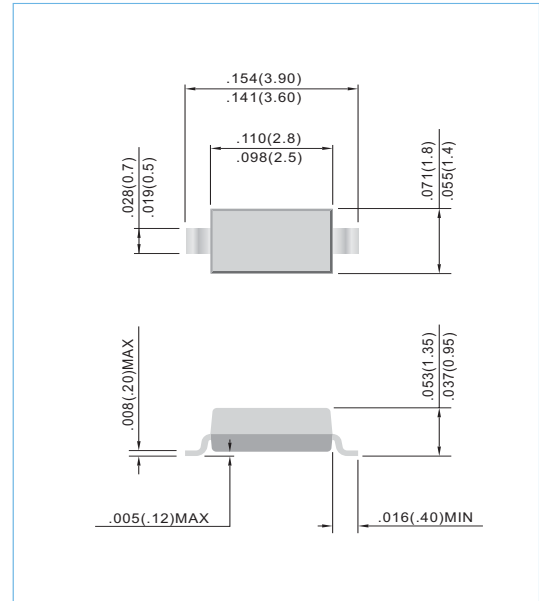
MECHANICAL DATA

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Polarity: See Diagram Below

Approx. Weight: 0.008 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

Parameter	Symbol	SS0520	SS0530	SS0540	Units
Marking Code		B2	B3	B4	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Current at Ta=75°C	I _{AV}	0.5			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	5.5			A
Maximum Instantaneous Forward Voltage at	V _F	0.3@ 0.1A 0.385@ 0.5A	0.375@ 0.1A 0.430@ 0.5A	0.51@ 0.5A	V
Maximum Reverse Current	I _R	75@Vr=10V	20@Vr=15V	10@Vr=20V	µA
Maximum Thermal Resistance	R _{θJL} R _{θJA}	150 206			°C / W
Operating Junction Temperature Range	T _J	-55 TO +125			°C
Storage Temperature Range	T _{STG}	-55 TO +125			°C

