SS0520~SS0540

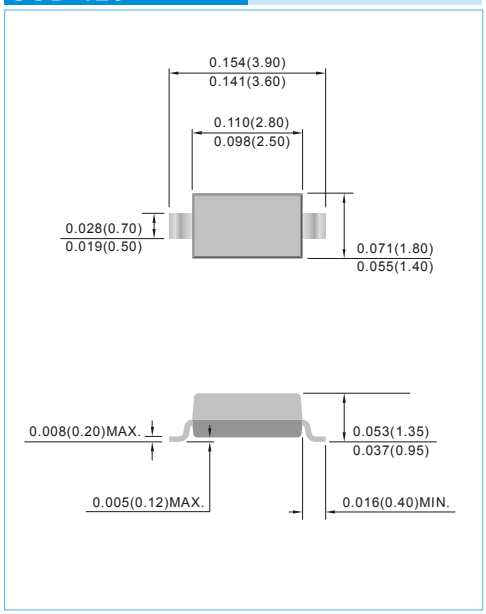
SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 20 to 40 Volts **CURRENT** 0.5 Amperes

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

SOD-123 Unit : inch(mm)



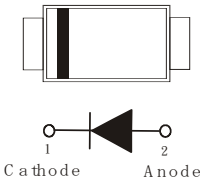
MECHANICAL DATA

Case: SOD-123, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band cathode

Approx. Weight: 0.0004 ounces, 0.01 grams



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

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 T_A=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
Power Dissipation (Mounted on 48cm² FR-4 PCB)	P_D	300			mW
Typical junction capacitance at V_R=0V DC	C_J	170			pF
Typical Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	150 206			°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125			°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS0520	SS0530	SS0540	UNITS
Maximum Instantaneous Forward Voltage	V_F	0.3@ 0.1A 0.385@ 0.5A	0.375@ 0.1A 0.430@ 0.5A	0.51@ 0.5A 0.62@1.0A	V
Maximum Reverse Current	I_R	75@V_R=10V	20@V_R=15V	10@V_R=20V	uA

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SS0520~SS0540

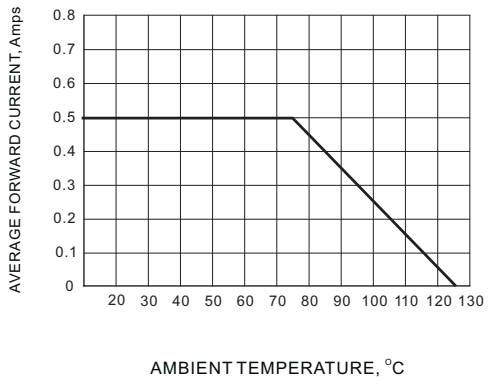


Fig.1 FORWARD CURRENT DERATING

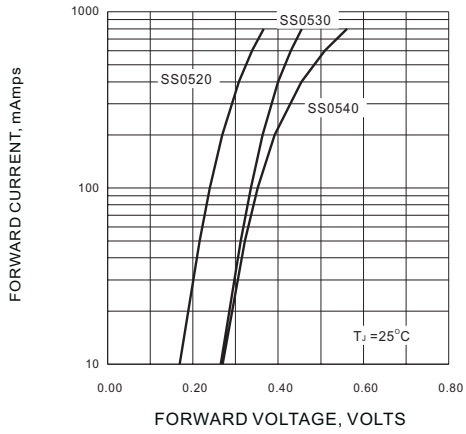


Fig.2 TYPICAL FORWARD VOLTAGE

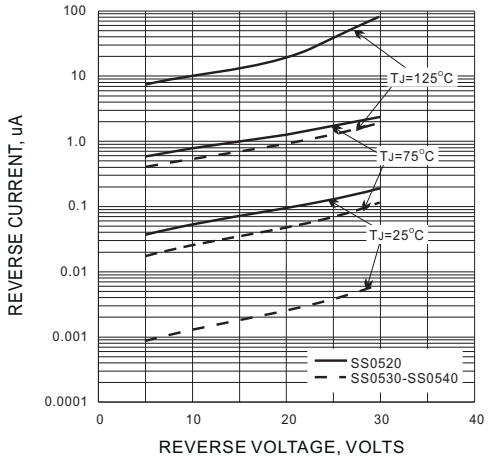


Fig.3 TYPICAL REVERSE CURRENT

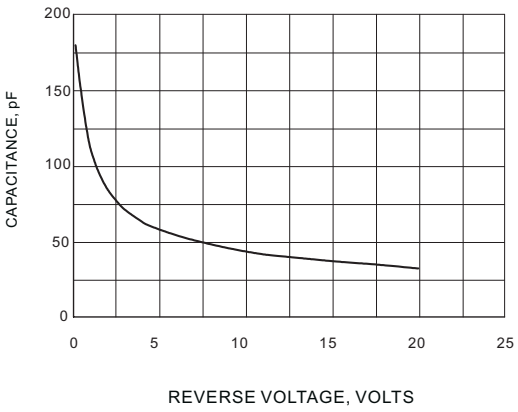


Fig.4 TYPICAL JUNCTION CAPACITANC

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