



SURFACE MOUNT SCHOTTKY BARRIER

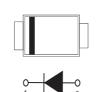
VOLTAGE 20 to 40 Volt CURRENT 0.5 Ampere

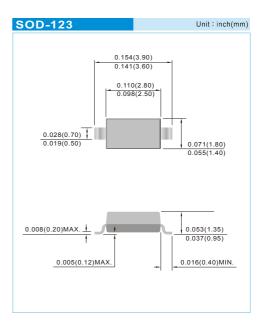
FEATURES

- · Low turn-on voltage
- · Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- · 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	В3	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	٧
Maximum Average Forward Current at TA=75°C	I _{AV}	0.5			А
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I FSM	5.5			Α
Power Dissipation (Mounted on 48cm ² FR-4 PCB)	P _D	300			mW
Typical Junction Capacitance at V_R =0V DC	C,	170			pF
Typical Thermal Resistance	$R_{_{ heta JA}}$	150 206			°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125			°C

ELECTRICAL CHARACTERISTICS (T₄=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	٧
Maximum Reverse Current	I _R	75@VR=10V	20@VR=15V	10@VR=20V	uA





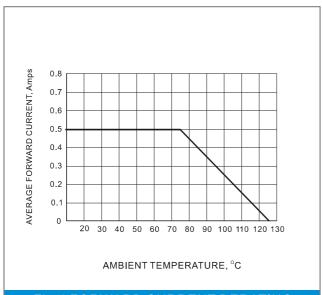


Fig. 1 FORWARD CURRENT DERATING

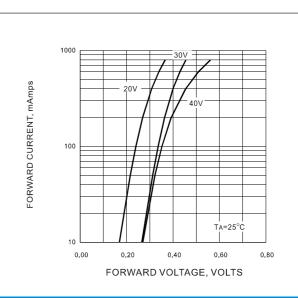


Fig.2 TYPICAL FORWARD VOLTAGE

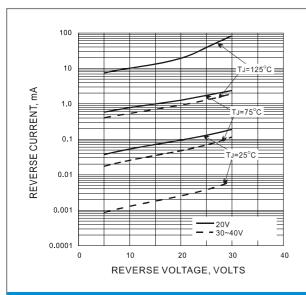


Fig.3 TYPICAL REVERSE CURRENT

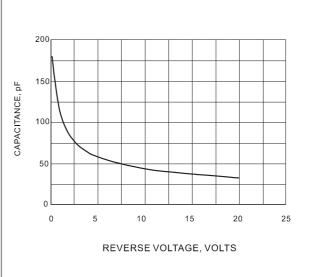


Fig.4 TYPICAL JUNCTION CAPACITANC

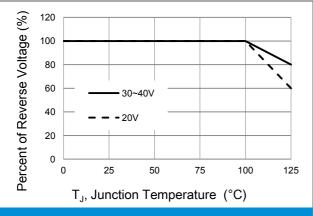
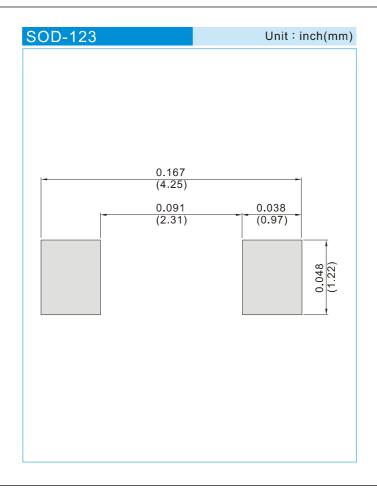


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

SS0520_R1_00001 SS0520_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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