

SURFACE MOUNT SCHOTTKY BARRIER

20 to 40 Volt CURRENT 0.5 Ampere

FEATURES

VOLTAGE

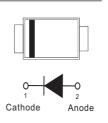
- · Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

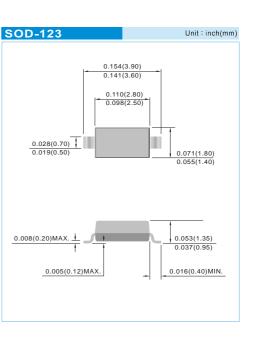
MECHANICAL DATA

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)

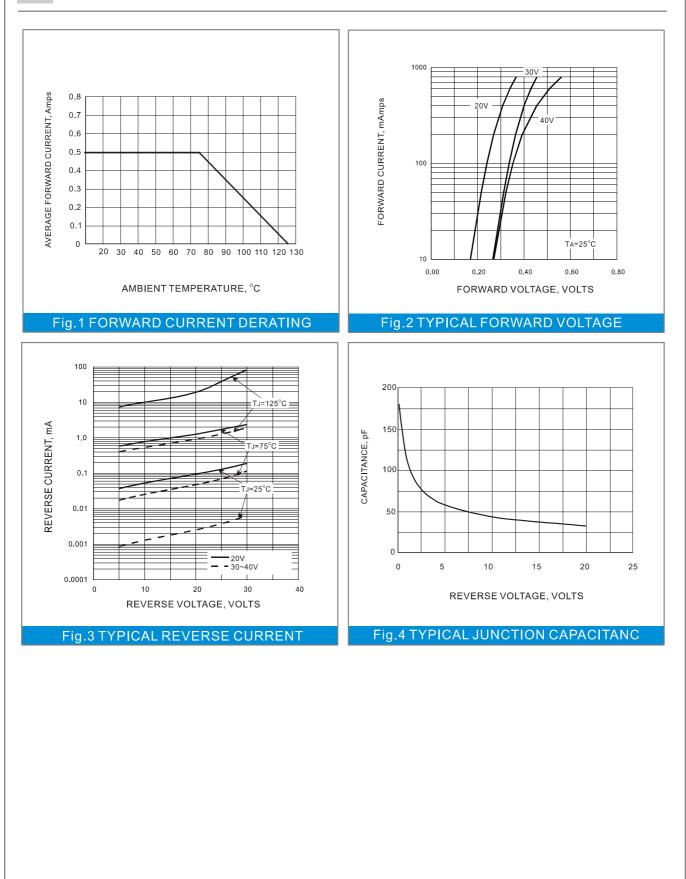
PARAMETER	SYMBOL	SS0520	SS0530	SS0540	UNITS
Marking Code		B2	В3	B4	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	v
Maximum RMS Voltage	V _{rms}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	v
Maximum Average Forward Current at TA=75°C	I _{AV}	0.5			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	5.5			А
Power Dissipation (Mounted on 48cm ² FR-4 PCB)	P _D	300			mW
Typical Junction Capacitance at $V_R = 0V$ DC	C	170			рF
Typical Thermal Resistance	R _{ejl} R _{eja}	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@Vr=10V	20@Vr=15V	10@Vr=20V	uA

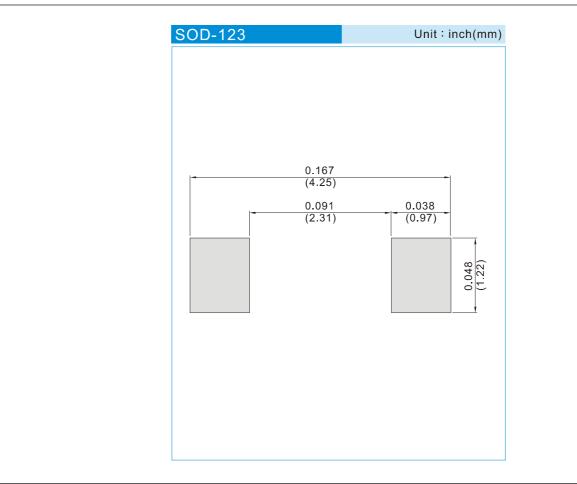








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel T/R - 3K per 7" plastic Reel



	SS0520~SS05	540								
ę	Part No_packing code SS0520_R1_00001 SS0520_R2_00001	_Versi	on							
For example : RB500V-40_R2_00001 Part No. Part No. Packing size code means HF Packing type means T/R										
	Packing type	1 st Code	g Code XX Packing size code	2 nd Code	HF or RoHS	on Code				
	Tape and Ammunition Box	A	N/A	0	HF	0	serial number			
	(T/B) 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						

PANASERT T/B CATHODE DOWN (PBCD)

D

FORMING

F

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