

1SS390

SURFACE MOUNT PIN DIODE

VOLTAGE	35 Volts	POWER	200 mW
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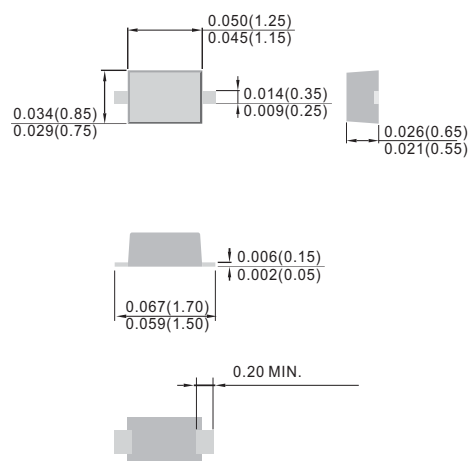
SOD-523	Unit : inch(mm)
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FEATURES

Very low series resistance at 100MHz (0.45 Ω typical@ $I_F=2mA$)
 Low capacitance (0.8pF typical@ $V_R=6V$)
 Surface mount package ideally suited for automatic insertion
 Lead free in comply with EU RoHS 2002/95/EC directives.
 Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOD-523 plastic
 Terminals : Solderable per MIL-STD-750,Method 2026
 Approx Weight: 0.0001 ounces, 0.0014 grams
 Device Marking : 90



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Reverse Voltage	V_R	35	V
Continuous Forward Current	I_F	0.2	A

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	P_{TOT}	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R_{JA}	625	$^{\circ}C / W$
Junction Temperature	T_J	-55 to 150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to 150	$^{\circ}C$

Note 1 : FR-4 Board 70 x 60 x 1mm.

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ELECTRICAL CHARACTERISTICS ($T_J=25^\circ\text{C}$, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	35	-	-	V
Reverse Current	I_R	$V_R=25\text{V}$	-	-	10	nA
Series Resistance	R_S	$I_F=2\text{mA}, f=100\text{MHz}$	-	0.45	0.9	Ω
Total Capacitance	C_T	$V_R=6\text{V}, f=1\text{MHz}$	-	-	1.2	pF

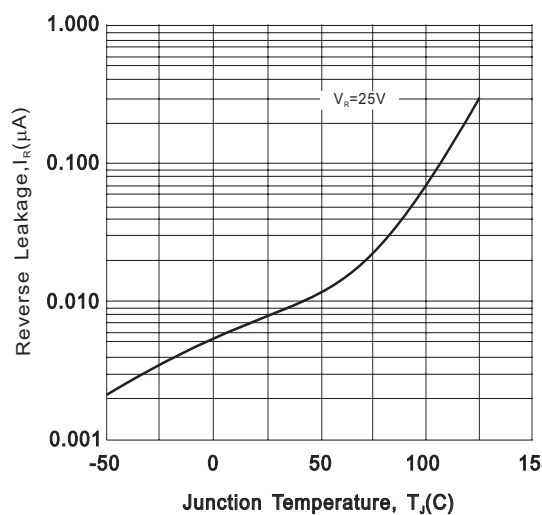


FIG. 1-Leakage Current

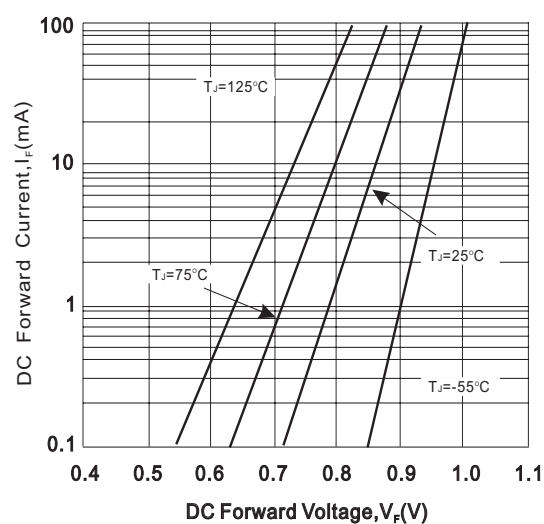


FIG. 2-Forward Voltage

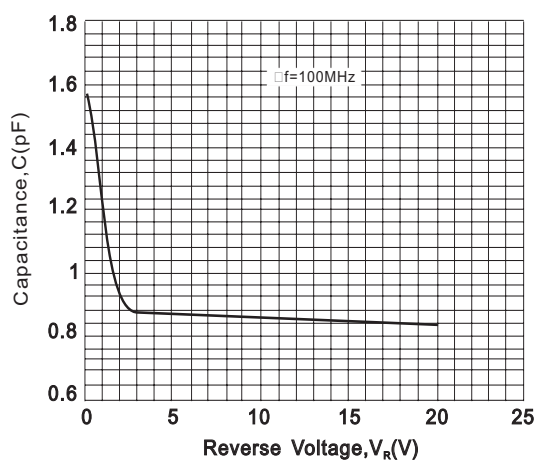


FIG. 3-Capacitance

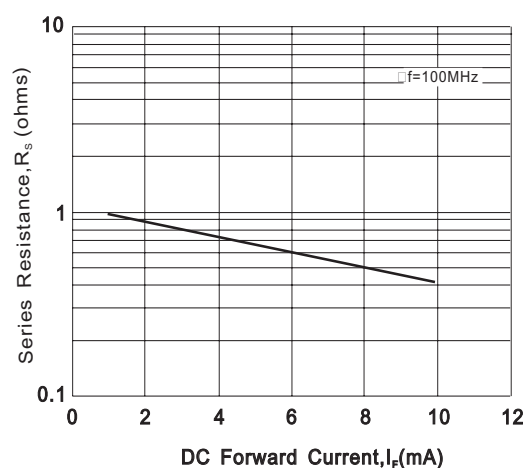
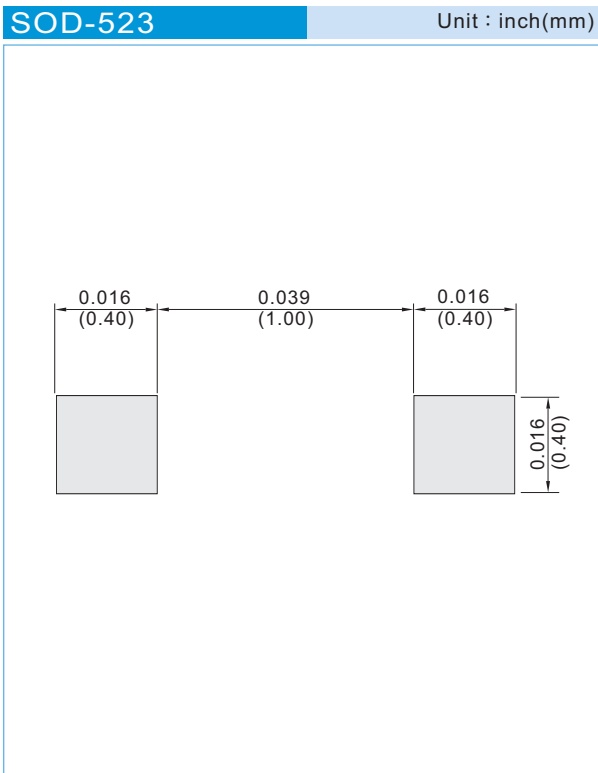


FIG. 4-Series Resistance

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

1SS390_R1_00001

1SS390_R2_00001