

1SS390

SURFACE MOUNT PIN DIODE

VOLTAGE	35 Volts	POWER	200 mW
----------------	-----------------	--------------	---------------

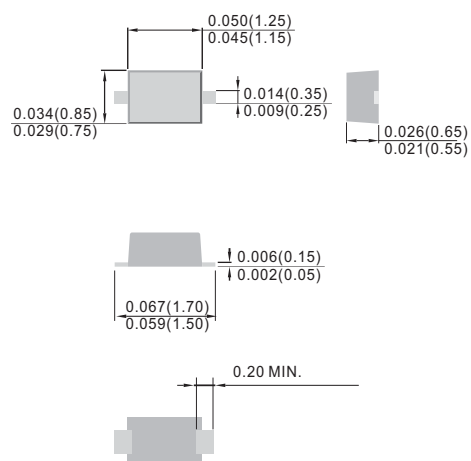
SOD-523	Unit : inch(mm)
----------------	-----------------

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.

1SS390

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

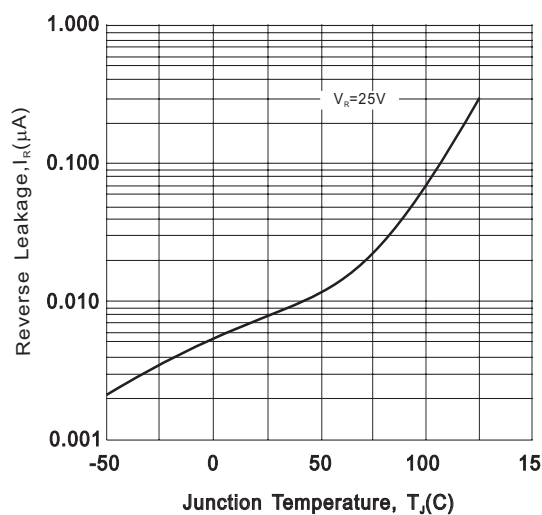


FIG. 1-Leakage Current

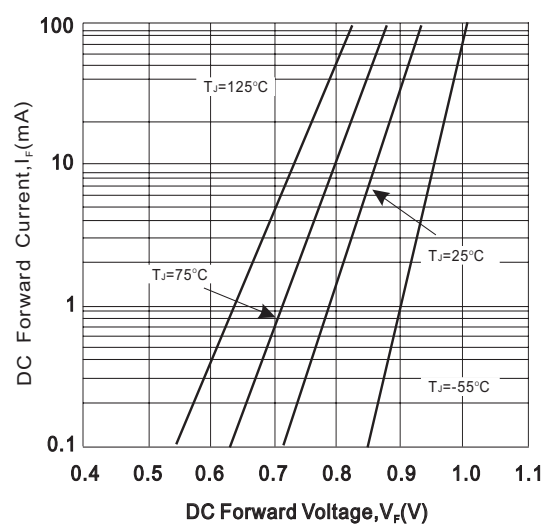


FIG. 2-Forward Voltage

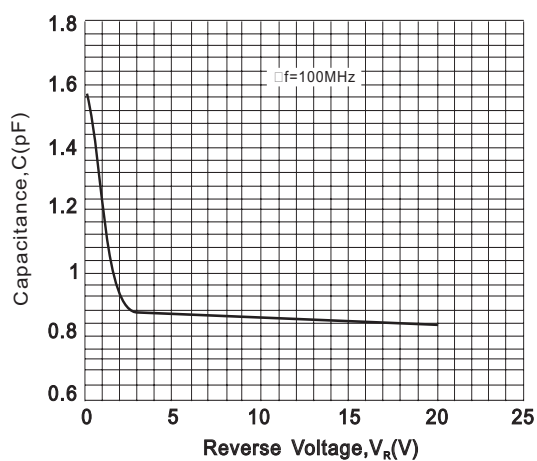


FIG. 3-Capacitance

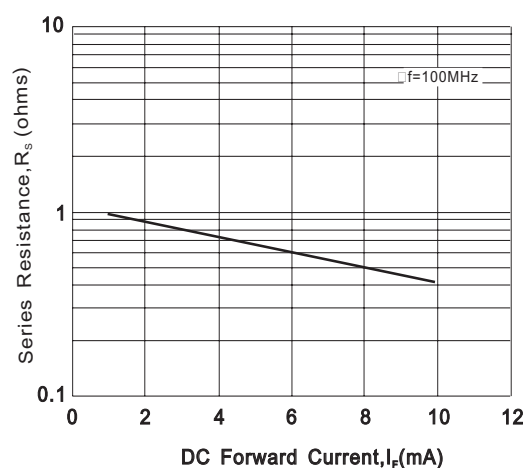
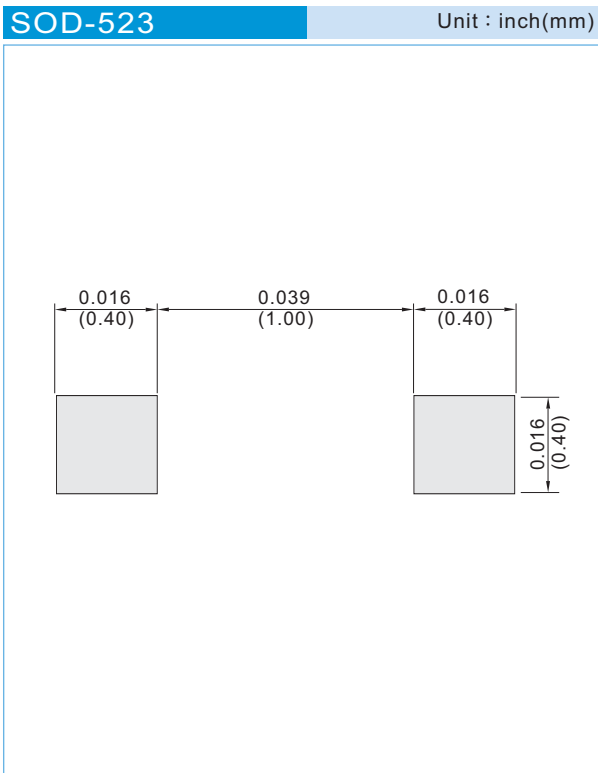


FIG. 4-Series Resistance

1SS390

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

Copyright PanJit International, Inc 2012

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.



1SS390

For example :

RB500V-40_R2_00001



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
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