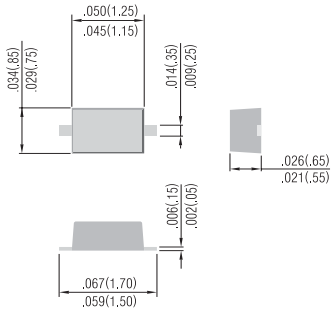
1SS390

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

Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case: SOD-523 plastic

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

Approx Weight: 0.002 grams

Device Marking : 390

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)	$R_{\theta JA}$	625	°C / W
Junction Temperaure	T_J	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C

Note 1 : FR-5 Board 1.0 x 0.75 x 0.062 in.

1SS390

ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise noted)

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

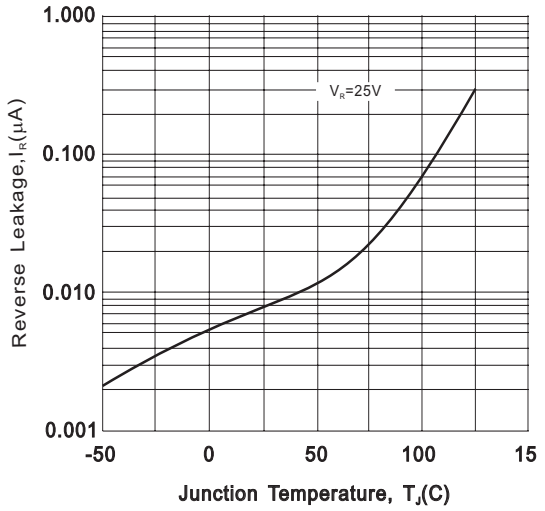


FIG. 1-Leakage Current

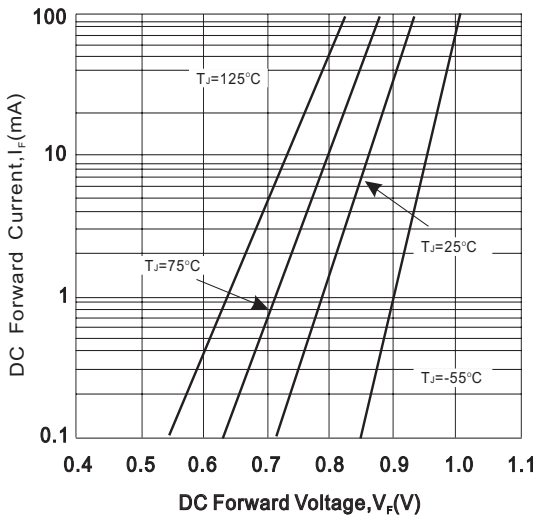


FIG. 2-Forward Voltage

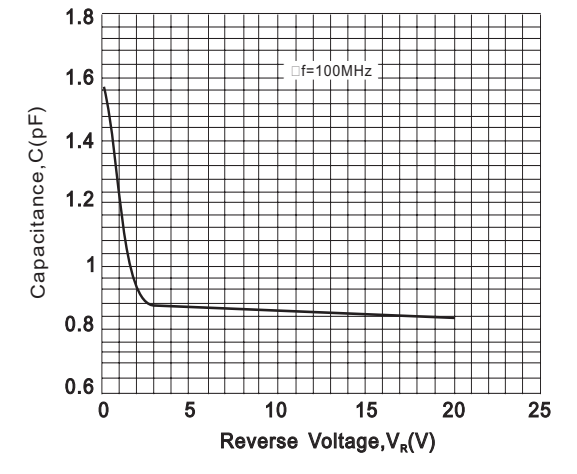


FIG. 3-Capacitance

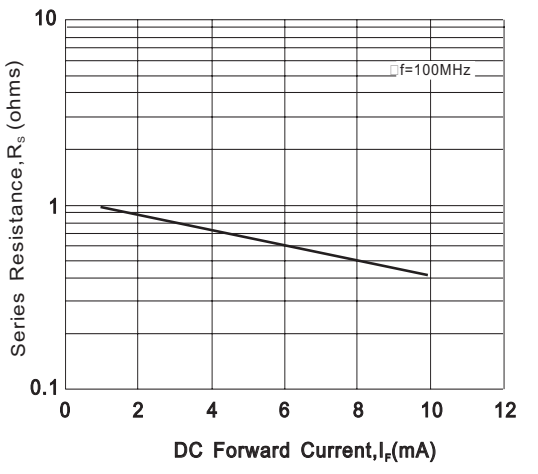
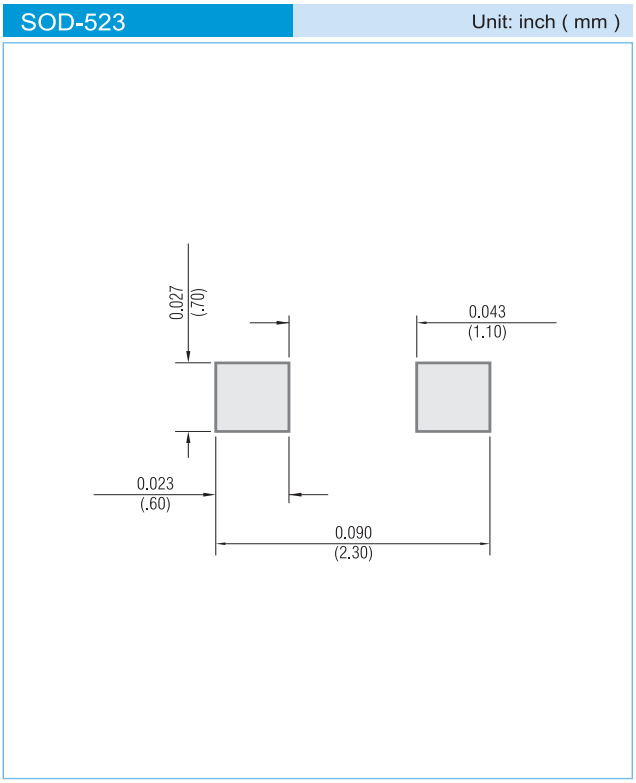


FIG. 4-Series Resistance

MOUNTING PAD LAYOUT

SOD-523 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2006

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.