PANJIT SEMI CONDUCTOR

NSR0130

SCHOTTKY BARRIER DIODE

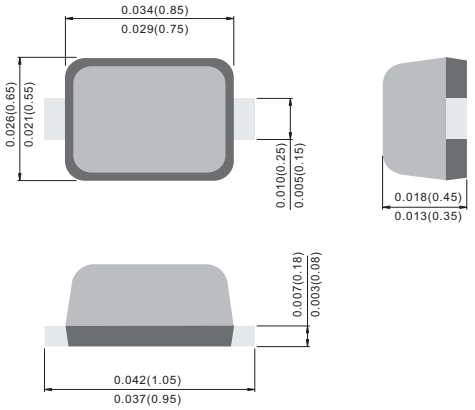
FEATURES

- Extremely Fast Switching Speed
- Extremely Low Forward Voltage 0.385V(max)@I_F=10mA
- Low Reverse Current
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-923, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.0004gram
- Marking : M

SOD-923 Unit: inch (mm)



PRELIMINARY

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current DC	I_F	100	mA
Forward Current Surge Peak (60Hz, 1cycle)	I_{FSM}	1.0	A

Stresses exceeding Maximum Ratings may damage the device.Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied.Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max.	Unit
Total Device Dissipation FR-4 Board, (Note 1)T_A=25°C Derate above 25°C	P_D	200 2.0	mW mW/°C
Thermal Resistance, Junction-to-Ambient	$R_{\Theta JA}$	650	°C/W
Junciton and Storage Temperature Range	T_J,T_{STG}	-55 to +125	°C

Notes : 1.Part mounted on FR-4 board with recommended pad layout

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ELECTRICAL CHARACTERISTICS@T_A=25°C unless otherwise specified

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Leakage (V_R=10V) (V_R=30V)	I_R	- -	- -	0.35 3.0	μA
Forward Voltage (I_F=10mA) (I_F=100mA)	V_F	- -	- -	0.385 0.525	V

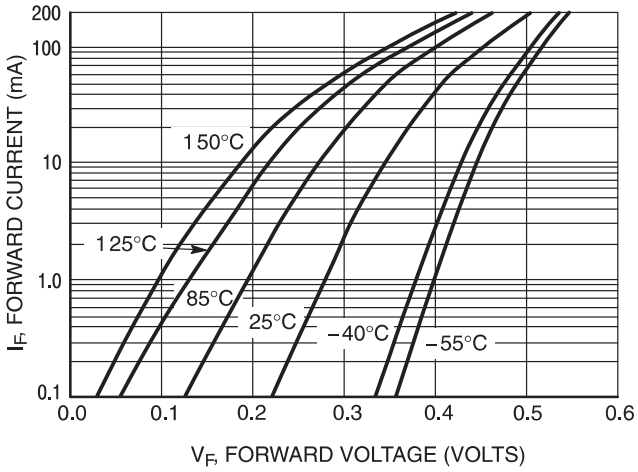

Figure 1. Forward Voltage

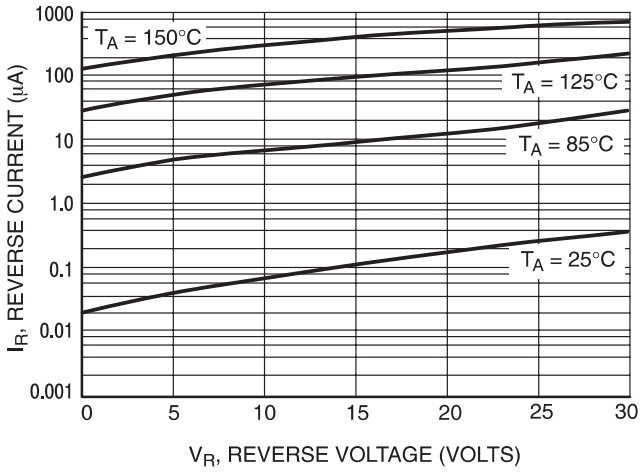

Figure 2. Leakage Current

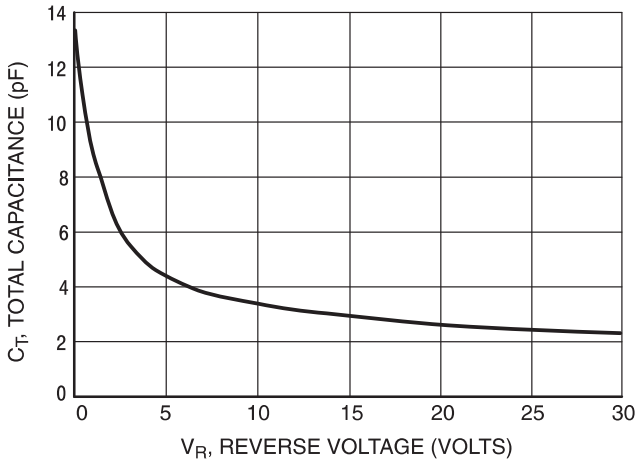

Figure 3. Total Capacitance

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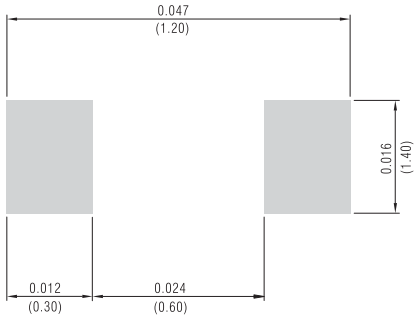
MOUNTING PAD LAYOUT

SOD-923 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 8K per 7" plastic Reel

LEGAL STATEMENT