

RB751S40X

SURFACE MOUNT SCHOTTKY DIODES

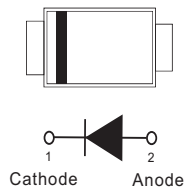
VOLTAGE 40 Volt **CURRENT** 30 mA

FEATURES

- Extremely Fast Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. .
(Halogen Free)

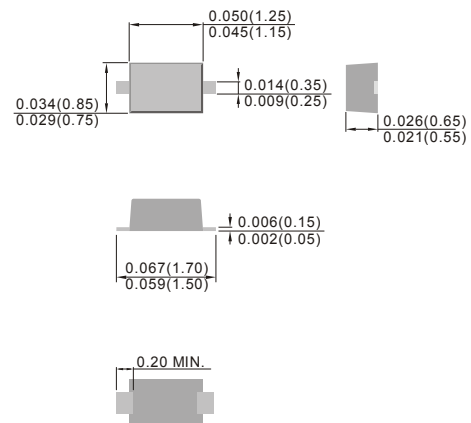
MECHANICAL DATA

- Case : SOD-523 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.00005 ounces, 0.0014 grams
- Marking : XR



SOD-523

Unit : inch(mm)



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Peak Reverse Voltage	V_{RRM}	40	V
Reverse DC Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	30	mA
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	mA
Typical Junction Capacitance ($V_R=1V$, $f=1MHz$)	C_J	2.5	pF
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	750	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=1mA$ $T_J=25^{\circ}C$	-	-	0.37	V
		$I_F=1mA$ $T_J=125^{\circ}C$	-	0.19	-	
Reverse Leakage Current	I_R	$V_R=30V$	-	-	0.5	μA

Note : 1. Mounted on an FR4 PCB, single-sided copper, mini pad.

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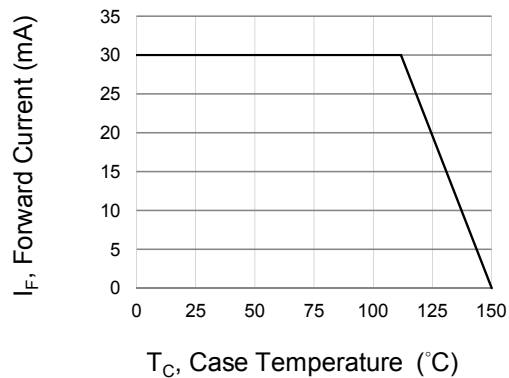


Fig.1 Forward Current Derating Curve

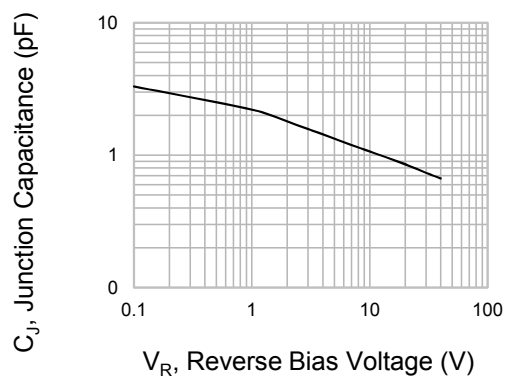


Fig.2 Typical Junction Capacitance

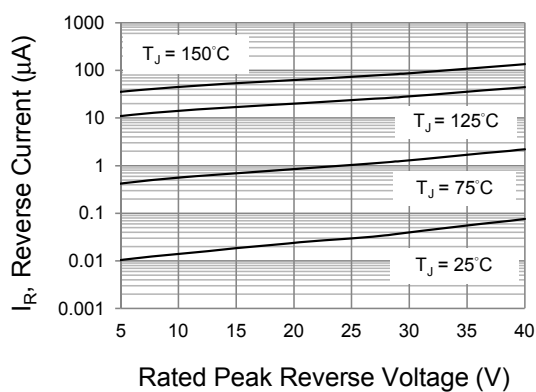


Fig.3 Typical Reverse Characteristics

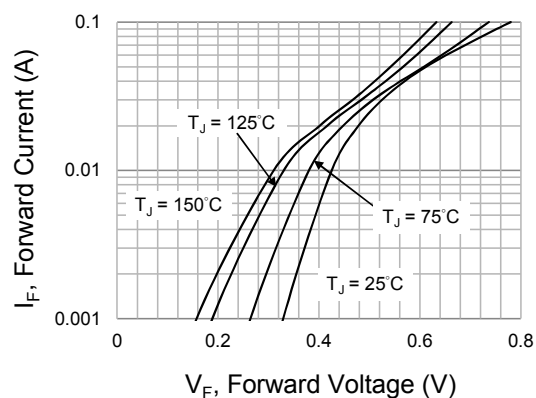


Fig.4 Typical Forward Characteristics

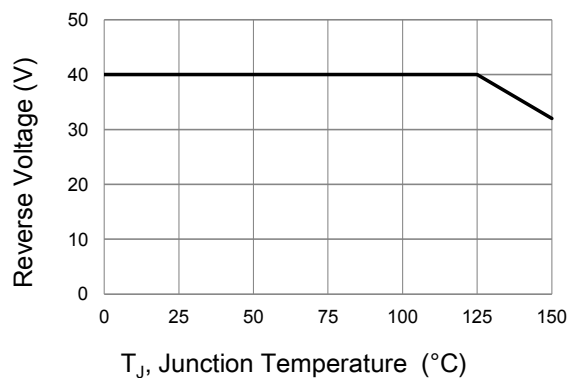


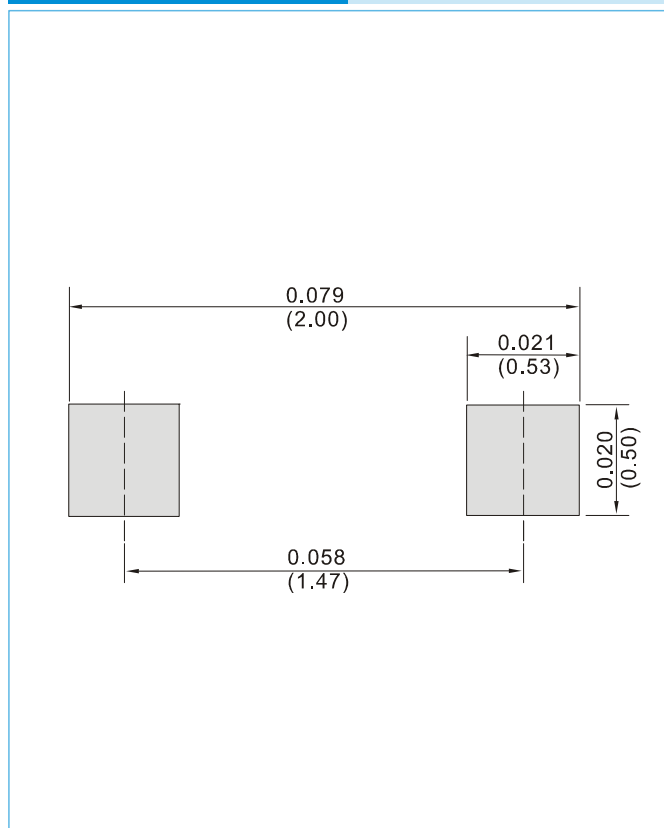
Fig.5 Operating Temperature Derating Curve

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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

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