



WSR1030D

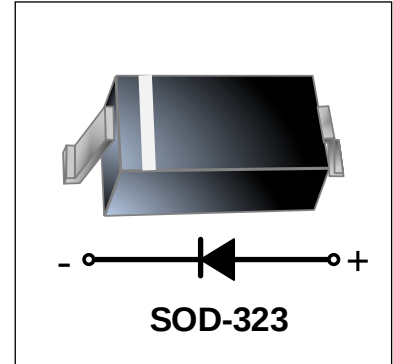
Schottky Barrier Diode

Features

- High Current Rectifier Schottky Diode with Very Low VF Drop
- For Power Supply Applications
- For Clamping and Protection in Low Voltage Applications
- For Detection and Step-up-Conversion

Applications

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	10	V
Forward Current	I_F	3	A
Forward Surge Current (tp=10ms)	I_{FSM}	5	A
Power Dissipation(TC=25°C)	P_{tot}	350	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C

Electrical Characteristics (Tamb=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 10mA$	-	-	0.3	V
		$I_F = 100mA$	-	-	0.38	
		$I_F = 500mA$	-	-	0.5	
		$I_F = 1000mA$	-	-	0.6	
Revers Current	I_R	$V_R = 5V$	-	-	15	μA
		$V_R = 8V$	-	-	25	
Diode Capacitance	C_T	$V_R = 5V, f = 1MHz$	-	25	-	pF

Typical Characteristics

Figure 1. Reverse Characteristics

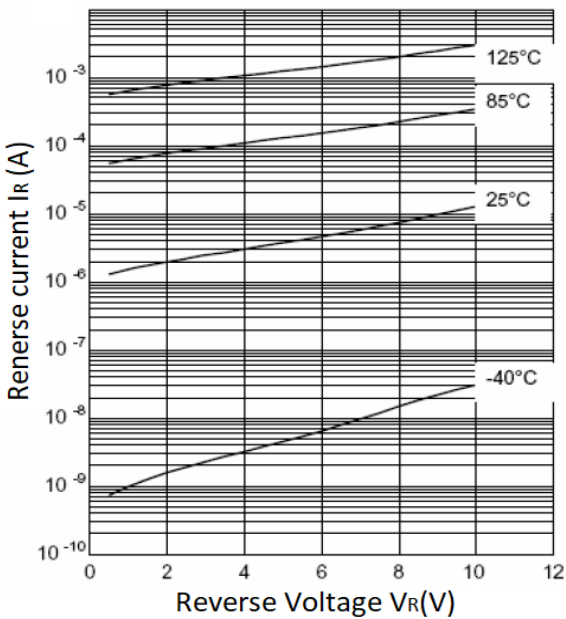
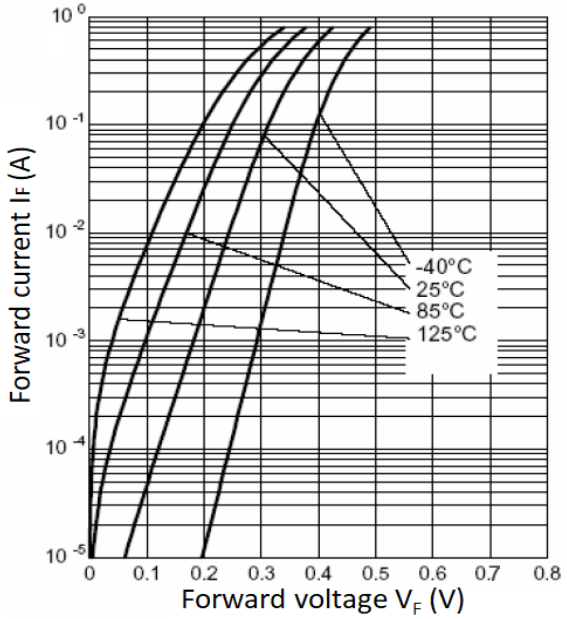
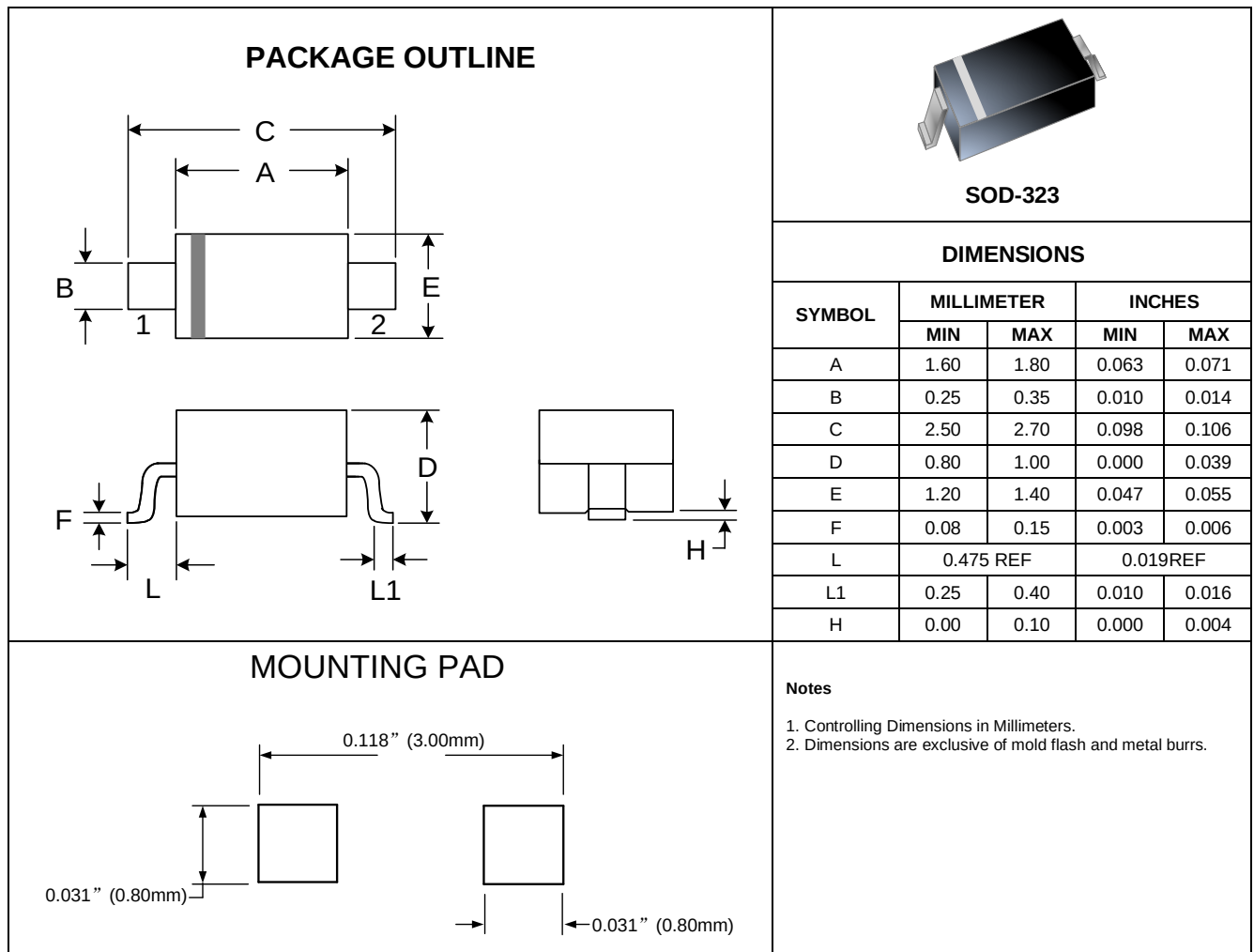


Figure 2. Forward Characteristics



Outline Drawing – SOD323



Marking Codes

Part Number	WSR1030D
Marking Code	W5

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.