



WSR4010D5

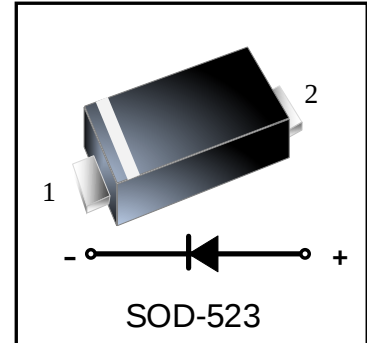
Schottky Barrier Diode

Features

- Low Forward Voltage Drop
- Very Small SMD Package

Applications

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



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_R	40	V
Mean Rectifying Current	I_o	1	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3ms$	I_{FSM}	7	A
Power Dissipation	P_D	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	$^{\circ}C/W$
Junction Temperature	T_J	-55 to 125	$^{\circ}C$
Storage Temperature	T_{stg}	-55 to 125	$^{\circ}C$

Electrical Characteristics ($T_{amb}=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R = 1mA$	40	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 40V$	-	10	40	μA
Forward Voltage	V_F	$I_F = 0.1A$	-	0.35	0.38	V
		$I_F = 0.2A$	-	0.37	0.42	
		$I_F = 0.5A$	-	0.42	0.49	
		$I_F = 0.7A$	-	0.47	0.55	
		$I_F = 1A$	-	0.51	0.61	
Typical Junction Capacitance	C_J	$V_R = 10V, f=1.0MHz$	-	19	-	pF

Typical Characteristics

Figure 1. Forward Characteristics

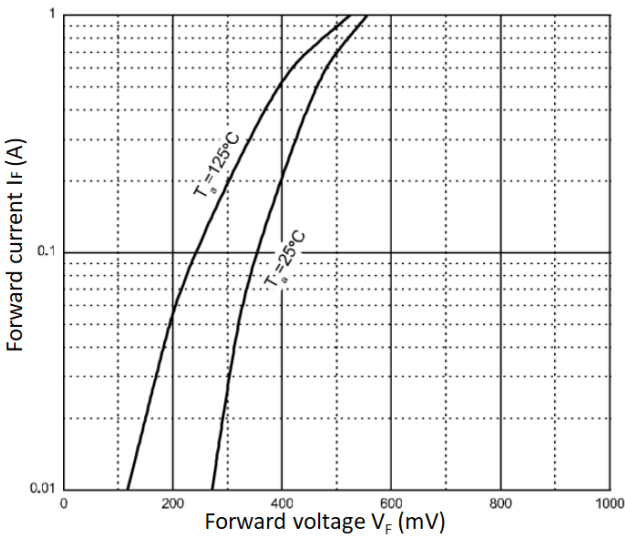
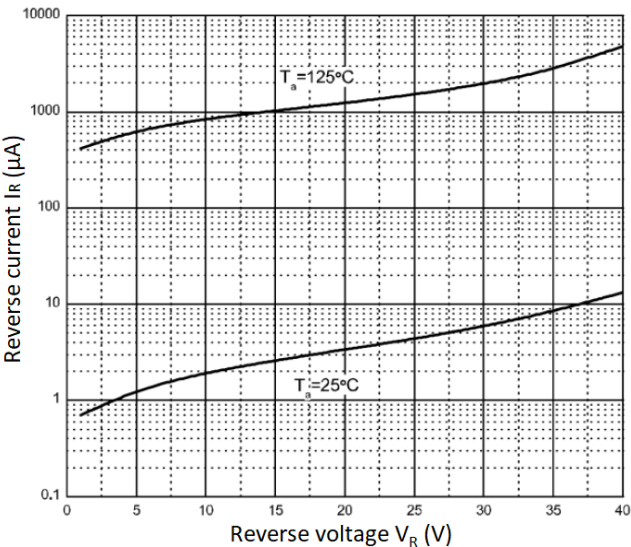
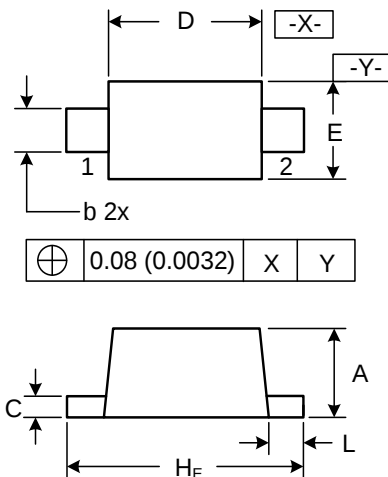
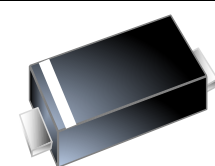
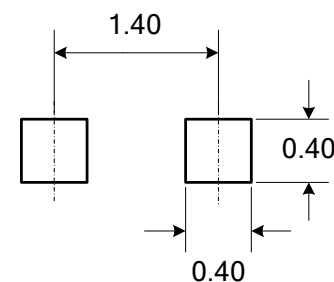


Figure 2. Reverse Characteristics



Outline Drawing – SOD-523

PACKAGE OUTLINE  ⊕ 0.08 (0.0032) X Y	 SOD-523 DIMENSIONS <table><tr><th rowspan="2">SYMBOL</th><th colspan="2">MILLIMETER</th><th colspan="2">INCHES</th></tr><tr><th>MIN</th><th>MAX</th><th>MIN</th><th>MAX</th></tr><tr><td>A</td><td>0.50</td><td>0.70</td><td>0.020</td><td>0.028</td></tr><tr><td>b</td><td>0.25</td><td>0.35</td><td>0.010</td><td>0.014</td></tr><tr><td>C</td><td>0.07</td><td>0.20</td><td>0.0028</td><td>0.0079</td></tr><tr><td>D</td><td>1.10</td><td>1.30</td><td>0.043</td><td>0.051</td></tr><tr><td>E</td><td>0.70</td><td>0.90</td><td>0.028</td><td>0.035</td></tr><tr><td>H_E</td><td>1.50</td><td>1.70</td><td>0.059</td><td>0.067</td></tr><tr><td>L</td><td>0.15</td><td>0.25</td><td>0.006</td><td>0.010</td></tr></table> Notes 1. Controlling Dimensions in Millimeters. 2. Dimensions are exclusive of mold flash and metal burrs.	SYMBOL	MILLIMETER		INCHES		MIN	MAX	MIN	MAX	A	0.50	0.70	0.020	0.028	b	0.25	0.35	0.010	0.014	C	0.07	0.20	0.0028	0.0079	D	1.10	1.30	0.043	0.051	E	0.70	0.90	0.028	0.035	H _E	1.50	1.70	0.059	0.067	L	0.15	0.25	0.006	0.010
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Marking Codes

Part Number	WSR4010D5
Marking Code	

Package Information

Qty: 5k/Reel

CONTACT INFORMATION

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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.