



WSR3002D5

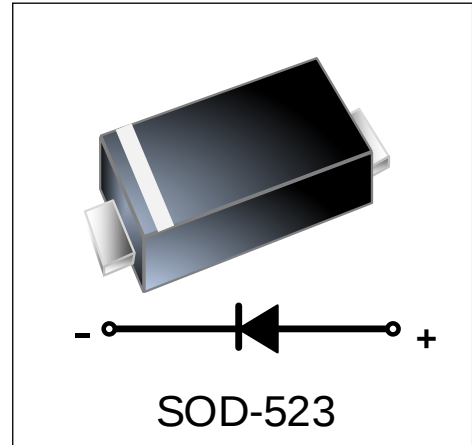
Schottky Barrier Diode

Features

- Low Current Rectification
- Low Forward Voltage
- Matte Tin Lead Finish(Pb-Free)

Applications

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



Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}	30	V
Continuous Forward Current	I_o	200	mA
Non-Repetitive Peak Forward Current @t=8.3ms	I_{FSM}	1	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 to +125	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R=10\mu A$	30	-	-	V
Forward Voltage	V_F	$I_F = 10mA$	-	-	0.40	V
		$I_F = 200mA$	-	-	0.60	
Reverse Current	I_R	$V_R = 10V$	-	-	1	μA

Typical Characteristics

Figure 1. I_R vs V_R

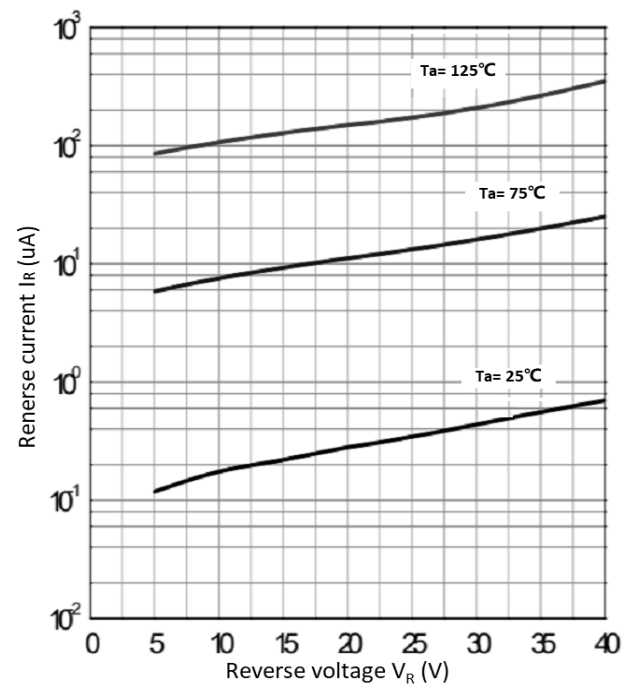
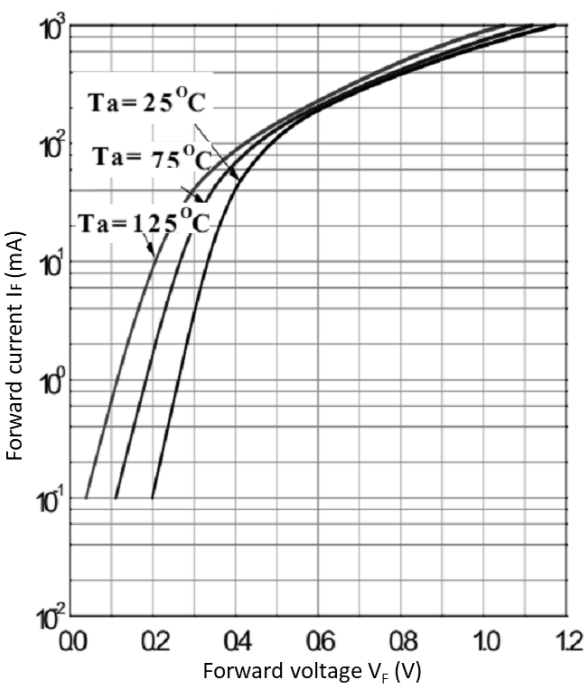


Figure 2. I_F vs V_F



Outline Drawing – SOD-523

PACKAGE OUTLINE ⊕ 0.08 (0.0032) X Y	SOD-523 <table><tr><th colspan="5">DIMENSIONS</th></tr><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>	DIMENSIONS					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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DIMENSIONS: MILLIMETERS	Notes 1. Controlling Dimensions in Millimeters. 2. Dimensions are exclusive of mold flash and metal burrs.																																																	

Marking Codes

Part Number	WSR3002D5
Marking Code	

Package Information

Qty: 5k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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