



WSR4005D3A

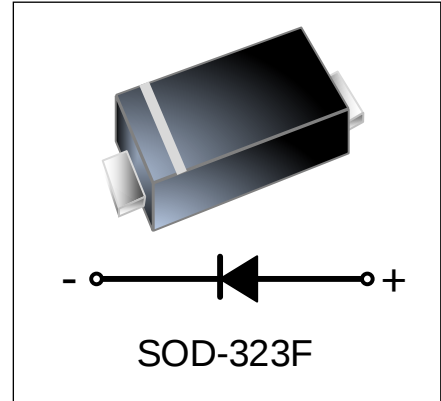
Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- Matte Tin (Sn) Lead Finish
- RoHS Compliant / Green EMC
- Cathode Band / Device Marking

Applications

- Flat Lead SOD-323F Small Outline Plastic Package
- Fast Switching RF and Digital Applications
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications



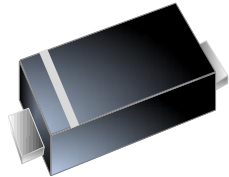
Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Non-Repetitive Peak Reverse Voltage	V_{RM}	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Repetitive Peak Forward Current	I_{FRM}	1.5	A
Non-Repetitive Peak Forward Current @ $t=8.3ms$	I_{FSM}	9	A
Average Rectified Output Current	I_O	1	A
Power Dissipation	P_D	250	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55~+150	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Breakdown Voltage	V_{BR}	$I_R = 1mA$	40	-	-	V
Reverse Voltage Leakage Current	I_R	$V_R = 40V$	-	-	50	μA
Forward Voltage	V_F	$I_F = 1A$	-	-	0.6	V
		$I_F = 3A$	-	-	0.9	
Diode Capacitance	C_D	$V_R = 4V, f=1MHz$	-	110	-	pF

Outline Drawing – SOD323F

PACKAGE OUTLINE	 SOD-323F 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>1.60</td><td>1.80</td><td>0.063</td><td>0.071</td></tr><tr><td>B</td><td>0.06</td><td>0.21</td><td>0.002</td><td>0.008</td></tr><tr><td>C</td><td>0.30</td><td>0.50</td><td>0.012</td><td>0.020</td></tr><tr><td>D</td><td>0.25</td><td>0.40</td><td>0.010</td><td>0.016</td></tr><tr><td>E</td><td>2.30</td><td>2.70</td><td>0.091</td><td>0.106</td></tr><tr><td>F</td><td>0.60</td><td>0.80</td><td>0.024</td><td>0.031</td></tr><tr><td>G</td><td>1.15</td><td>1.35</td><td>0.045</td><td>0.053</td></tr></table>	SYMBOL	MILLIMETER		INCHES		MIN	MAX	MIN	MAX	A	1.60	1.80	0.063	0.071	B	0.06	0.21	0.002	0.008	C	0.30	0.50	0.012	0.020	D	0.25	0.40	0.010	0.016	E	2.30	2.70	0.091	0.106	F	0.60	0.80	0.024	0.031	G	1.15	1.35	0.045	0.053
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MOUNTING PAD	Notes 1. Controlling Dimensions in Millimeters. 2. Dimensions are exclusive of mold flash and metal burrs.																																												

Marking Codes

Part Number	WSR4005D3A
Marking Code	

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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