

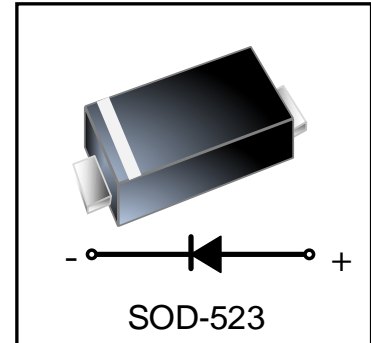


WFR1N4148WT

Fast Switching Diode

Features

- Fast Switching Devices
- SOD-523 Thin SMD Package
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device Marking



Applications

- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Average Rectified Current	I_o	200	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 1mA$	-	-	0.715	V
		$I_F = 10mA$	-	-	0.855	
		$I_F = 50mA$	-	-	1.0	
		$I_F = 150mA$	-	-	1.25	
Reverse Current	I_R	$V_R = 75V$	-	-	1	μA
		$V_R = 20V$	-	-	25	nA
Reverse Breakdown Voltage	V_{BR}	$I_R = 1\mu A$	75	-	-	V
Diode Capacitance	C_D	$V_R = 0V, f = 1MHz$	-	-	2	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA, I_{RR} = 1mA$ $R_L = 100\Omega$	-	-	4	ns

Typical Characteristics

Figure 1. I_F vs. V_F

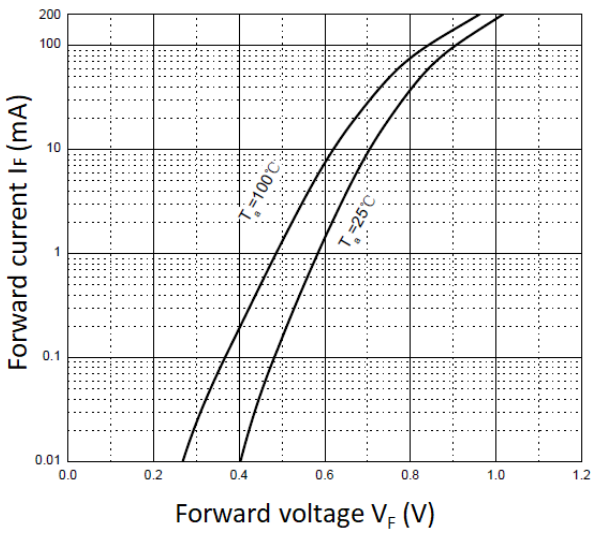


Figure 2. I_R vs. V_R

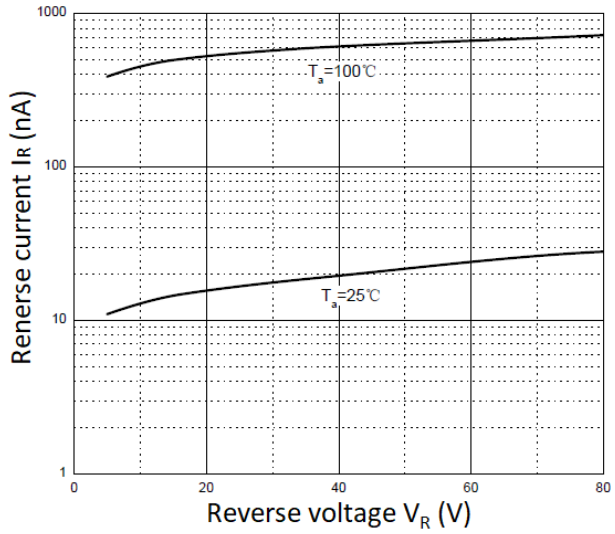


Figure 3. Capacitance Characteristics

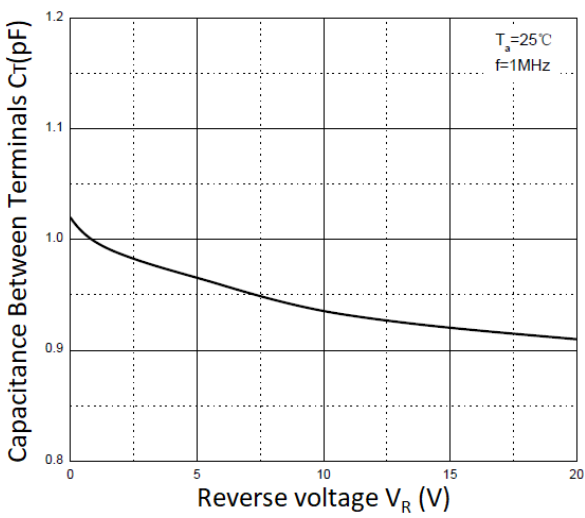
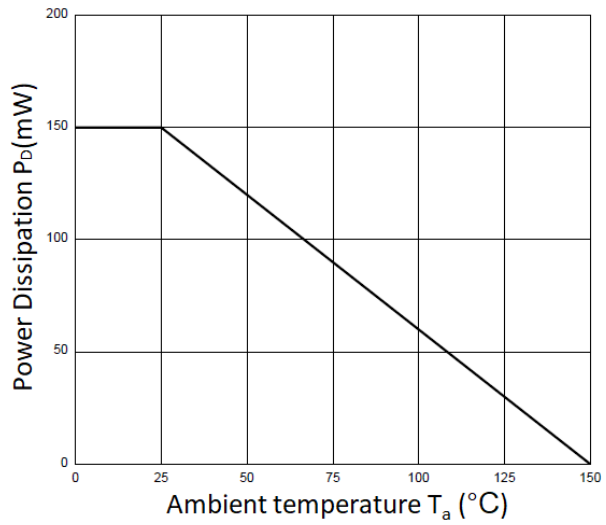


Figure 4. Power Derating Curve



Outline Drawing – SOD-523

PACKAGE OUTLINE

⊕	0.08 (0.0032)	X	Y
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SOD-523

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
HE	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010

DIMENSIONS: MILLIMETERS

Notes

- Controlling Dimensions in Millimeters.
- Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	WFR1N4148WT
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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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.

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