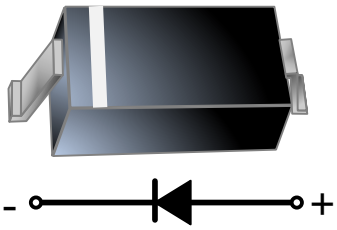
WFR1N4148WS

Fast Recovery Diode

Features

- Fast Switching Devices
- SOD323 Thin SMD Package
- RoHS Compliant / Green EMC
- Matte Tin (Sn) Lead Finish
- Cathode Band / Device Marking
- Moisture Level Sensitivity



SOD-323

Applications

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

Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Non-repetitive Peak Repetitive Voltage	V_{RSM}	100	V
Repetitive Peak Reverse Voltage	V_{RRW}	75	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @t=1μs	I_{FSM}	2.0	A
Continuous Forward Current	I_O	150	mA
Power Dissipation	P_D	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	215	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics (T_{amb}=25°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	
		I_F = 150mA	-	-	1.25	
Reverse Voltage Leakage Current	I_R	V_R = 75V	-	-	1	μA
		V_R = 20V	-	-	25	nA
Reverse Breakdown Voltage	V_{BR}	I_R = 1μA	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}=0.1I_R, R_L=100Ω,V_R=6V	-	3.5	-	ns

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Typical Characteristics

Figure 1. I_F vs. V_F

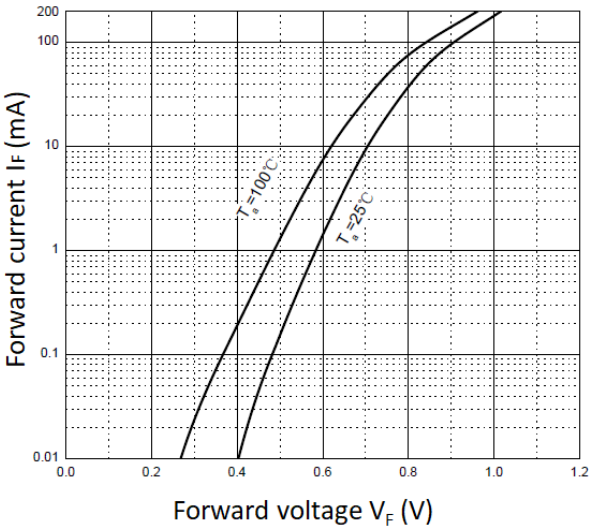


Figure 2. I_R vs. V_R

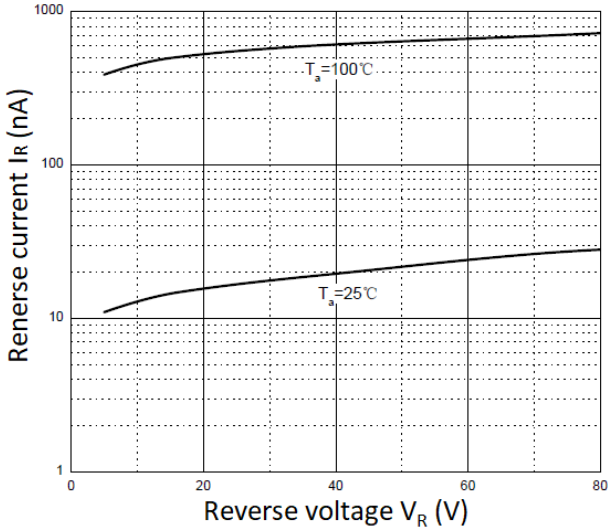


Figure 3. Capacitance Characteristics

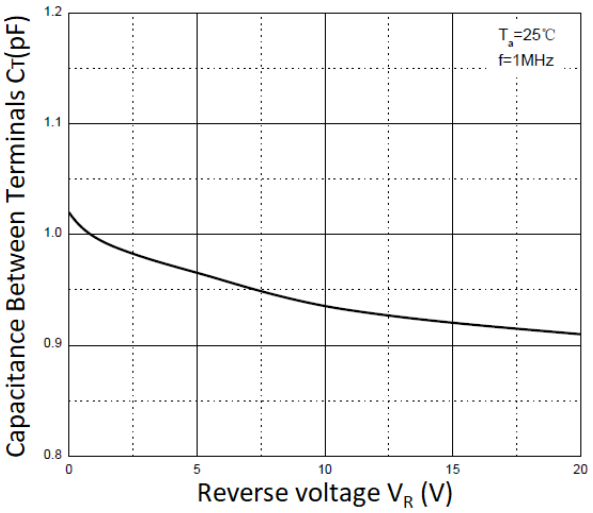
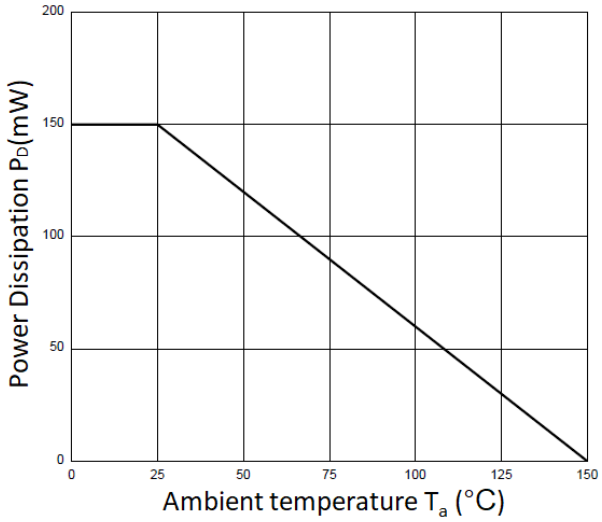
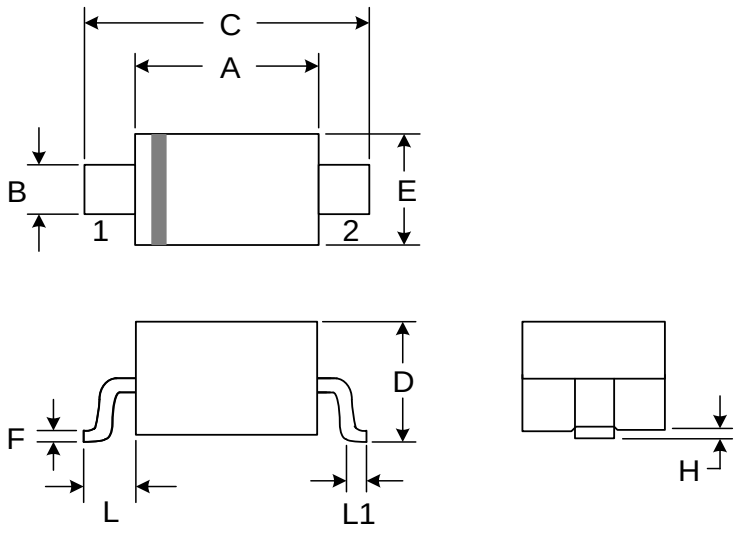


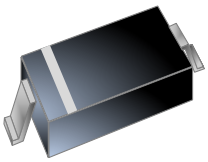
Figure 4. Power Derating Curve



Outline Drawing –SOD-323

PACKAGE OUTLINE



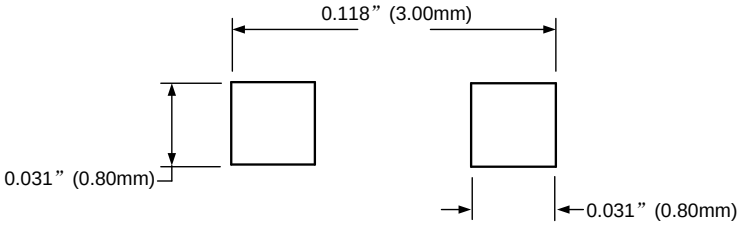


SOD-323

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.80	0.063	0.071
B	0.25	0.35	0.010	0.014
C	2.50	2.70	0.098	0.106
D	0.80	1.00	0.000	0.039
E	1.20	1.40	0.047	0.055
F	0.08	0.15	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.25	0.40	0.010	0.016
H	0.00	0.10	0.000	0.004

MOUNTING PAD



Notes

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

Marking Codes

Part Number	WFR1N4148WS
Marking Code	T4

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.