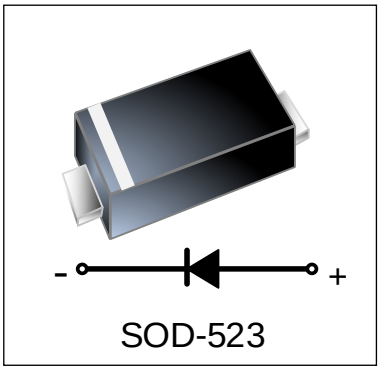
WSR40V3D5

Schottky Barrier Diode

Features

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



SOD-523

Applications

- 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
DC Blocking Voltage	V_R	40	V
Average Rectified Output Current	I_O	30	mA
Non- Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	0.2	A
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55to+125	°C

Electrical Characteristics (T_{amb}=25°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 = 30V	-	-	0.5	μA
Diode Capacitance	C_D	V_R = 1V,f = 1MHz	-	2	-	pF
Forward Voltage	V_F	I_F = 1mA	-	-	0.37	V

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Typical Characteristics

Figure 1. Forward Characteristics

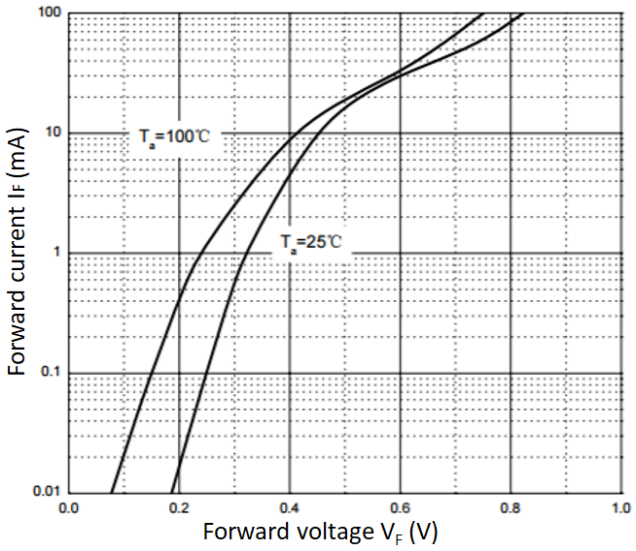


Figure 2. Reverse Characteristics

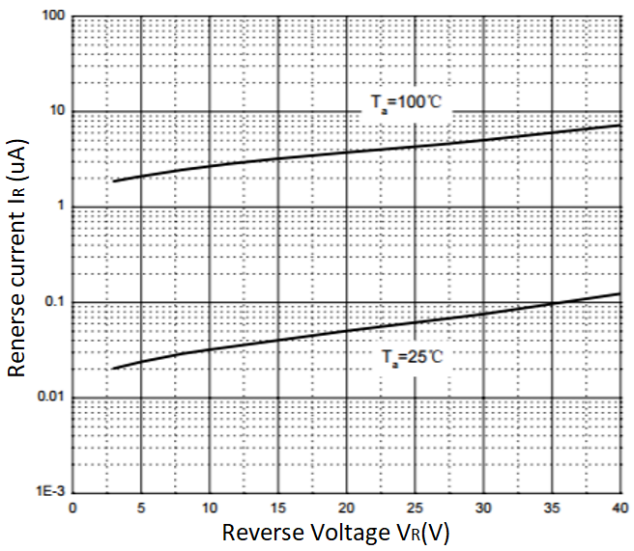


Figure 3. Capacitance Characteristics

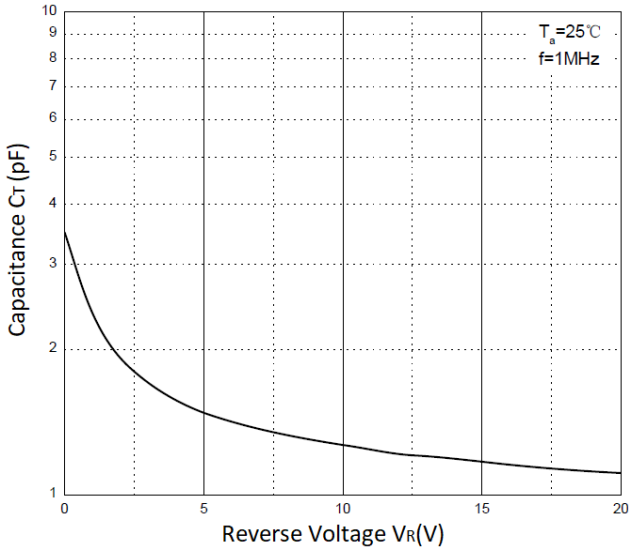
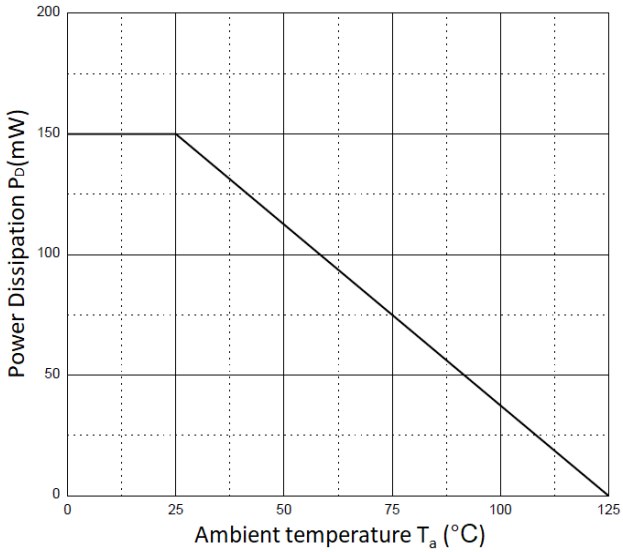
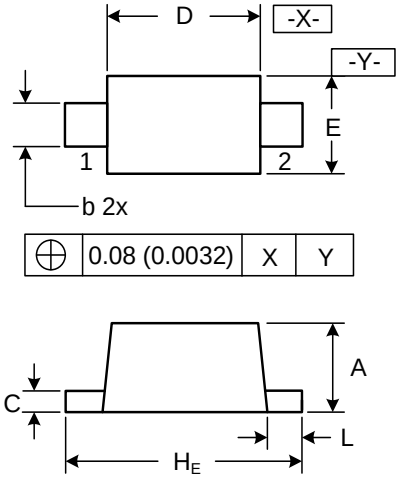


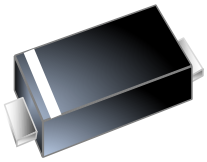
Figure 4. Power Derating Curve



Outline Drawing – SOD-523

PACKAGE OUTLINE

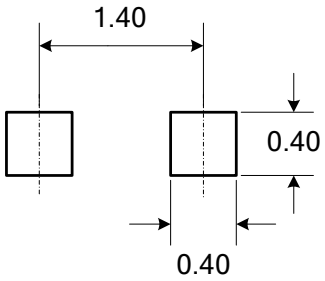




SOD-523

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
H_E	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010



DIMENSIONS: MILLIMETERS

Notes

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

Marking Codes

Part Number	WSR40V3D5
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.