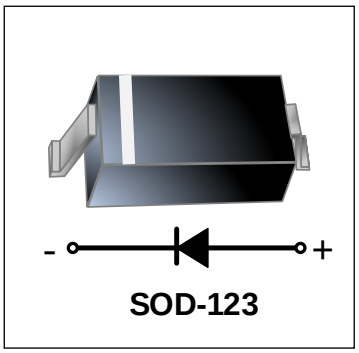
WSR2005D1

Schottky Barrier Diode

Features

- Low Forward Voltage Schottky Rectifier
- SOD123 Thin SMD Package



Applications

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

Absolute Maximum Rating (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-repetitive Peak Repetitive Voltage	V_{RM}	20	V
Repetitive Peak Reverse Voltage	V_{RRW}	20	V
RMS reverse voltage	$V_{R(RMS)}$	14	V
Average Rectified Output Current	I_O	0.5	A
Non-repetitive Peak Forward Surge Current [1]	I_{FSM}	5.5	A
Power Dissipation	P_D	410	mW
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-65 to +150	℃

Note1：8.3ms single half sine-wave.

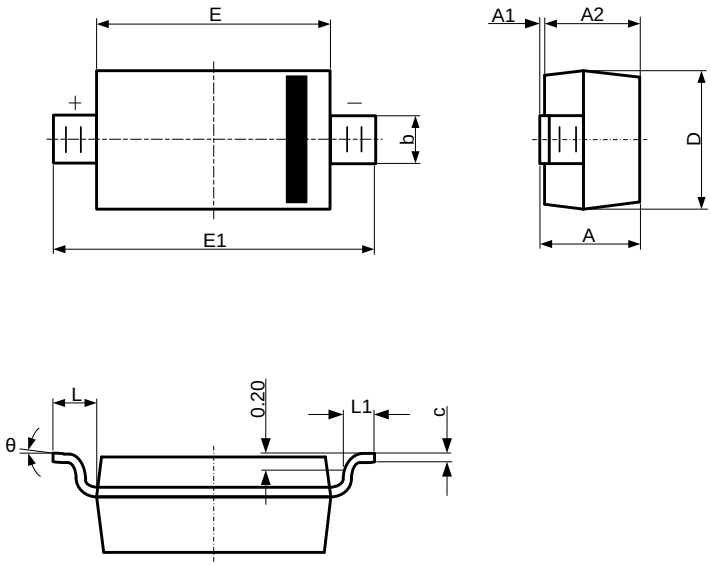
Electrical Characteristics (T_{amb}=25°C unless otherwise specified)

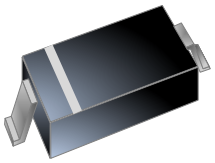
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_{BR}	I_R=500μA	20	-	-	V
Forward Voltage	V_F	I_F = 0.5A	-	-	0.45	V
Reverse Current	I_R	V_R = 20V	-	-	200	μA
Capacitance	C_T	V_R=4V,f=1MHz	-	30	-	pF

©2019 WAYON Corporation

Outline Drawing –SOD-123

PACKAGE OUTLINE

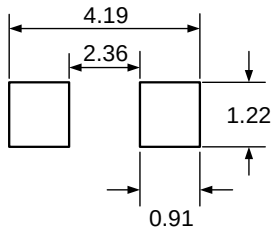




SOD-123

DIMENSIONS

SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°



DIMENSIONS: MILLIMETERS

Notes

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

Marking Codes

Part Number	WSR2005D1
Marking Code	R2

Package Information

Qty：3k/Reel

CONTACT INFORMATION

No.1001, Shiwan (7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-68969993 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**

For additional information, please contact your local Sales Representative.

WAYON ® is registered trademark of Wayon Corporation.

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.