200mWSOD-323 Schottky Barrier Diode

Features

- Low Current Rectifier Schottky Diode
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage

RoHS COMPLIANT

Marking: S31 **SOD-323**

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise noted)

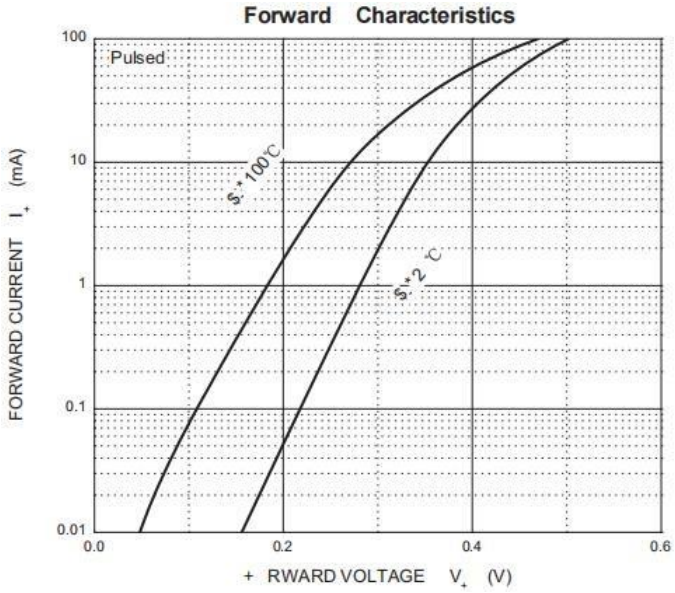
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Peak Reverse Voltage	V_{RM}	45	V
Average Rectified Current	I_o	100	mA
Non-Repetitive Peak Forward Surge Current@tp=8.3ms; TA=25℃	I_{FSM}	1.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	℃/W
Storage Temperature Range	T_S	-55-+150	℃
Operating Junction Temperature Range	T_J	-40-+150	℃

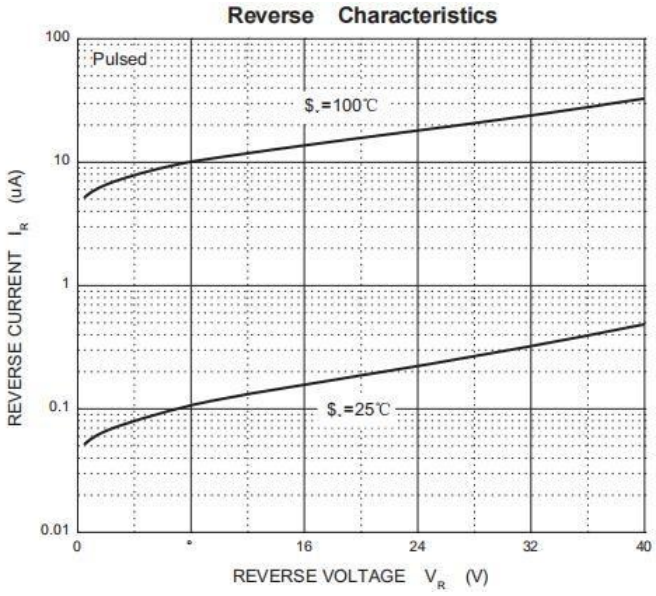
Electrical Characteristics (T_A=25°C unless otherwise noted)

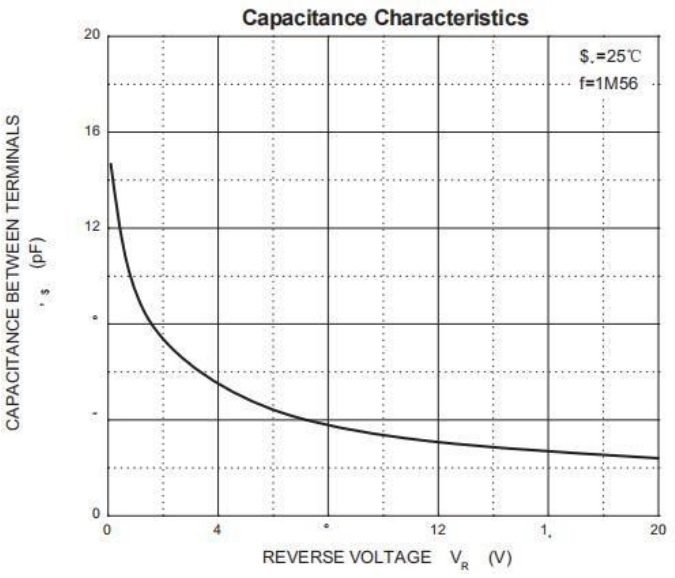
Parameter	Symbols	Test Condition	Limits			Unit
			Min	Typ	Max	
Reverse Current	I_R	VR=40V			5	uA
Forward Voltage	V_F	IF=1.0mA			0.35	V
		IF=10mA			0.45	
		IF=100mA			0.6	
Capacitance Between Terminals	C_J	VR=0V, f=1MHZ			25	pF

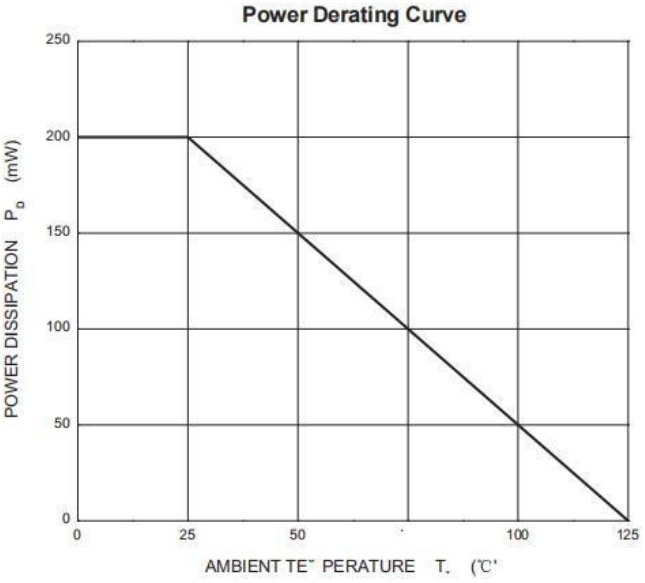
Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)



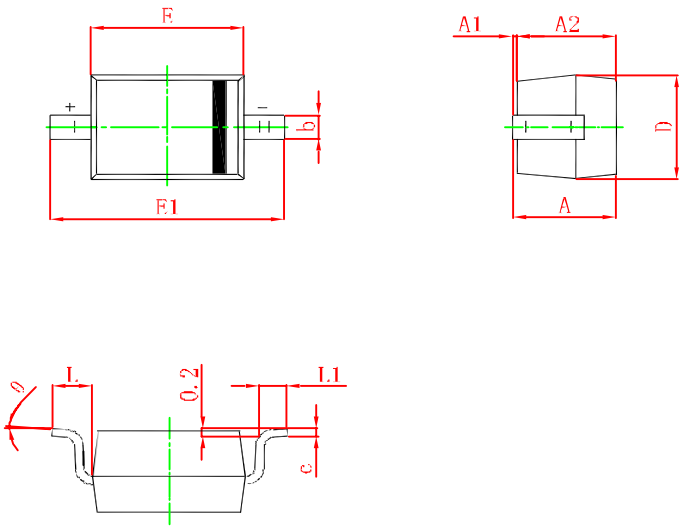






Package Outline Dimensions

in inches (millimeters)



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

Revision History

Document Version	Date of release	Description of changes
Rev.A	2022.08.25	First issue

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