

## 200mW SOD-323 Schottky Barrier Diode

### Features

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



### Mechanical Data

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

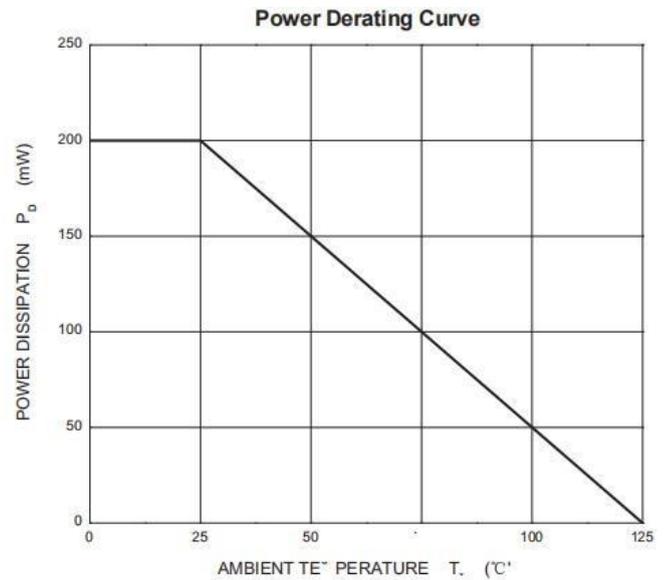
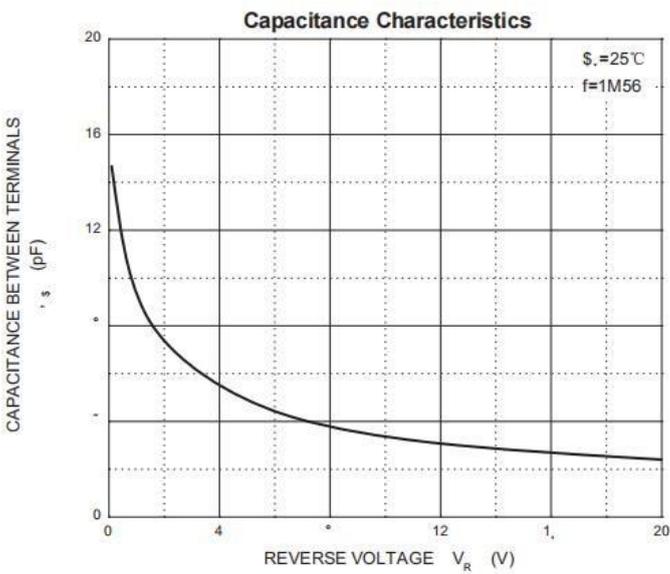
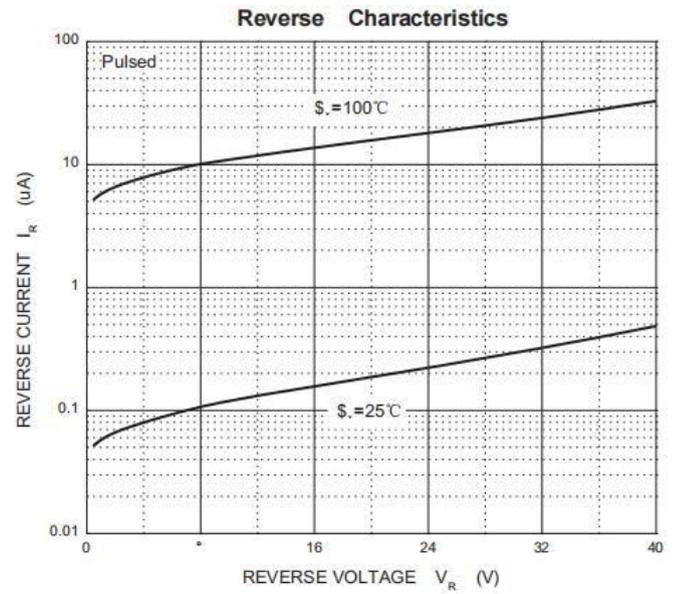
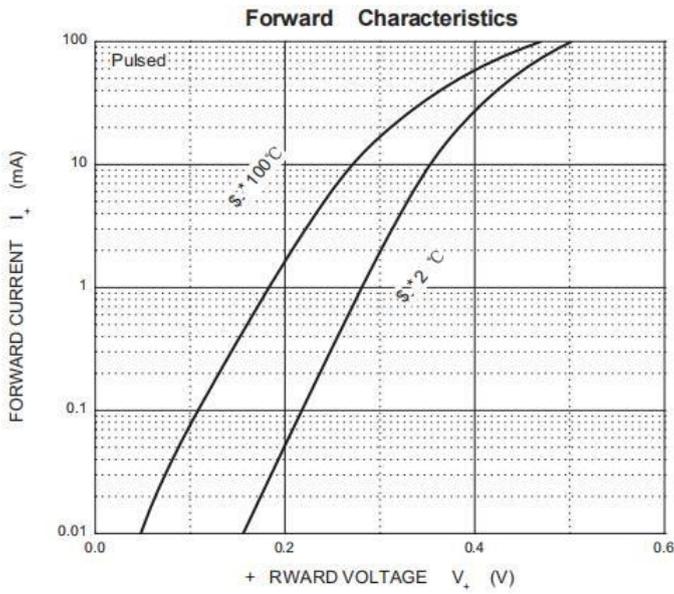
Marking: S31 SOD-323

Maximum Ratings & Thermal Characteristics ( $T_A=25^\circ\text{C}$ 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@ $t_p=8.3\text{ms}$ ; $T_A=25^\circ\text{C}$	$I_{FSM}$	1.0	A
Power Dissipation	$P_D$	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Storage Temperature Range	$T_S$	-55-+150	$^\circ\text{C}$
Operating Junction Temperature Range	$T_J$	-40-+150	$^\circ\text{C}$

Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)						
Parameter	Symbols	Test Condition	Limits			Unit
			Min	Typ	Max	
Reverse Current	$I_R$	$V_R=40\text{V}$			5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=1.0\text{mA}$			0.35	V
		$I_F=10\text{mA}$			0.45	
		$I_F=100\text{mA}$			0.6	
Capacitance Between Terminals	$C_J$	$V_R=0\text{V}$ , $f=1\text{MHz}$			25	pF

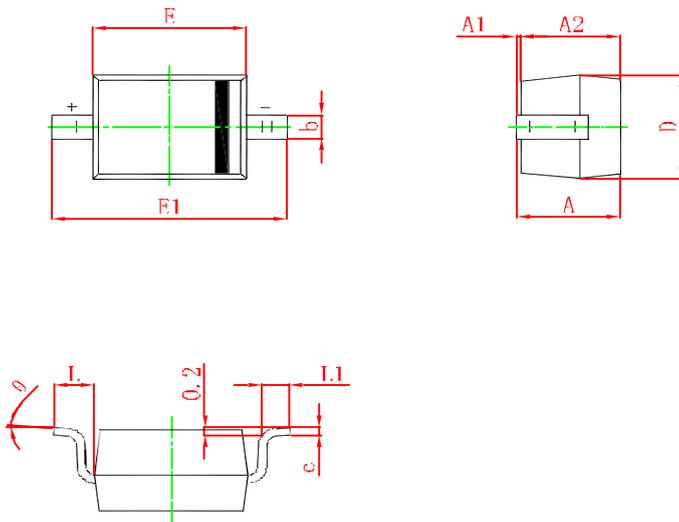
## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  unless otherwise noted)



## Package Outline Dimensions

millimeters



Symbol	Min	Max
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
$\theta$	0°	8°

## Revision History

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

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