

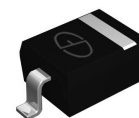
200mW SOD-323 Fast Switching Diode

Features

- Fast Switching Device
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage



RoHS
COMPLIANT



Marking : WQ SOD-323

Mechanical Data

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

Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameters	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	P_D	200	mW
Operating junction temperature	T_J	150	$^\circ\text{C}$
Storage temperature range	T_S	-55:+150	$^\circ\text{C}$
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_O	150	mA
Non-repetitive Peak Forward Current	I_{FM}	300	mA
Peak Forward Surge Current	I_{FSM}	1.0	A
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	312	$^\circ\text{C}/\text{W}$

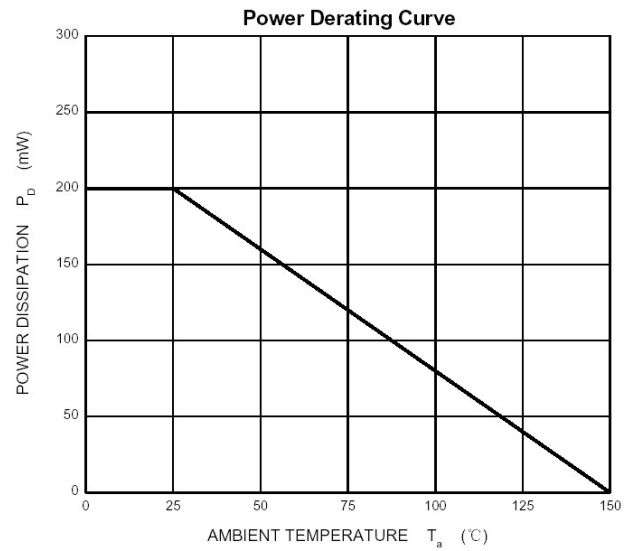
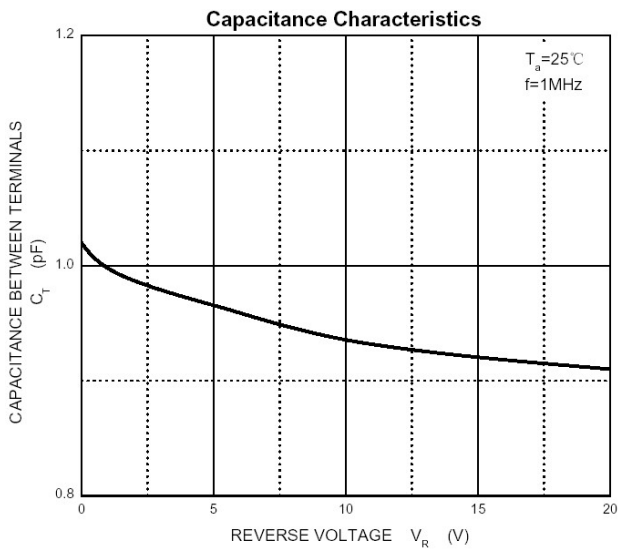
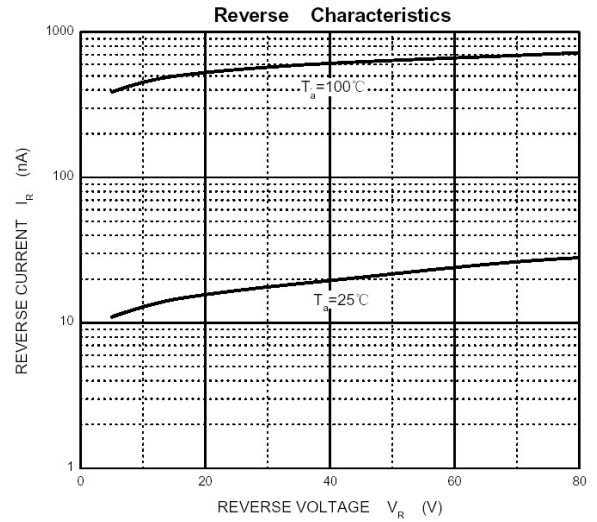
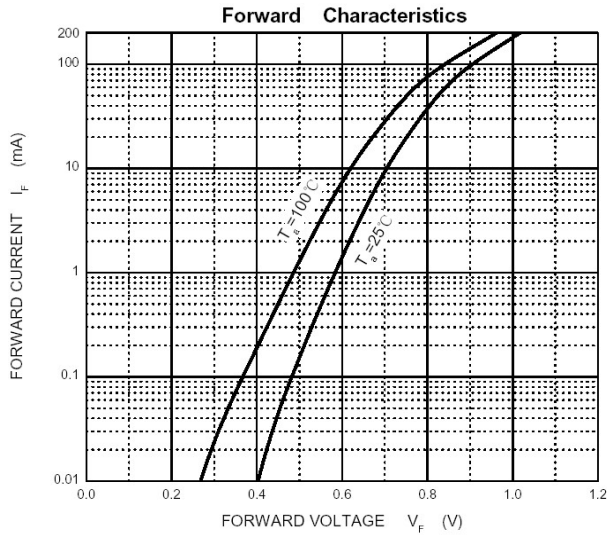
Valid provided that electrodes are kept at ambient temperature.

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

Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Breakdown Voltage	B_V	$I_R=100\mu\text{A}$	100		V
		$I_R=5\mu\text{A}$	75		
Reverse Leakage Current	I_R	$V_R=20\text{V}$		25	nA
		$V_R=75\text{V}$		5	μA
Forward Voltage	V_F	$I_F=10\text{mA}$		1.00	V
		$I_F=100\text{mA}$		1.25	
Reverse Recovery Time	T_{RR}	$I_F = I_R = 30\text{mA}$, $I_{rr}=0.1 \times I_R$ $R_L=100 \Omega$		50	nS
Capacitance	C_j	$V_R=0\text{V}$, $f=1\text{MHz}$		4	pF

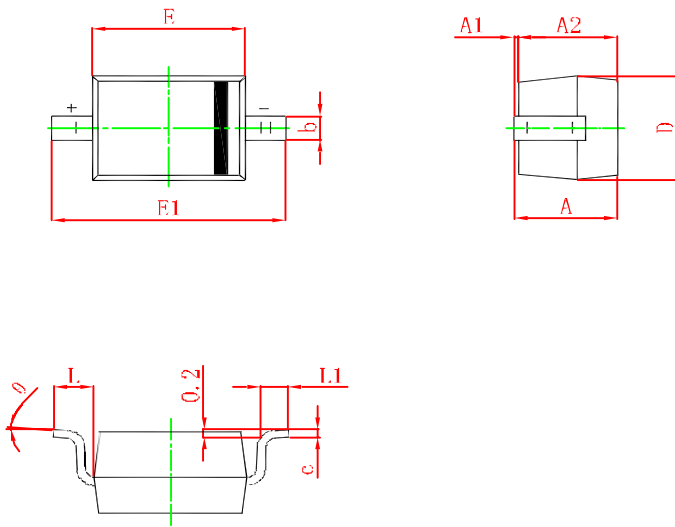
Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ 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
θ	0°	8°

Revision History

Document Version	Date of release	Description of changes
Rev.A	2016.01.28	First issue

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