

250mWSOD-323Fast SwitchingDiode

Features

- 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 250mW; Power Dissipation of 250mW
- High Stability and High Reliability
- Low reverse leakage



Marking :A6 SOD-323

Mechanical Data

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

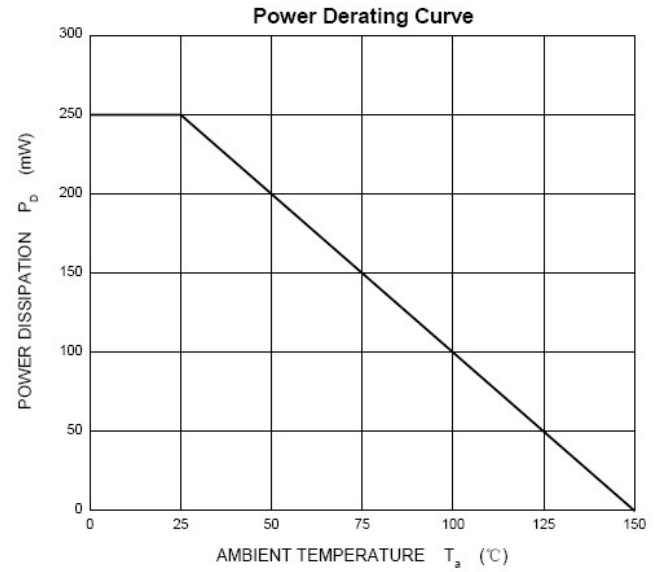
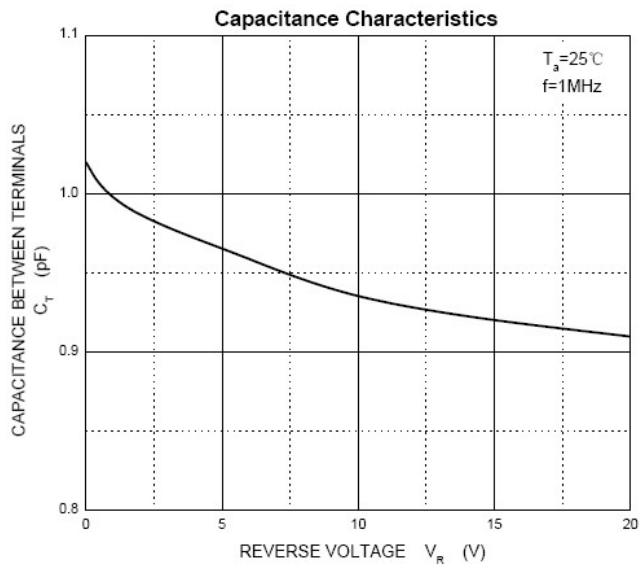
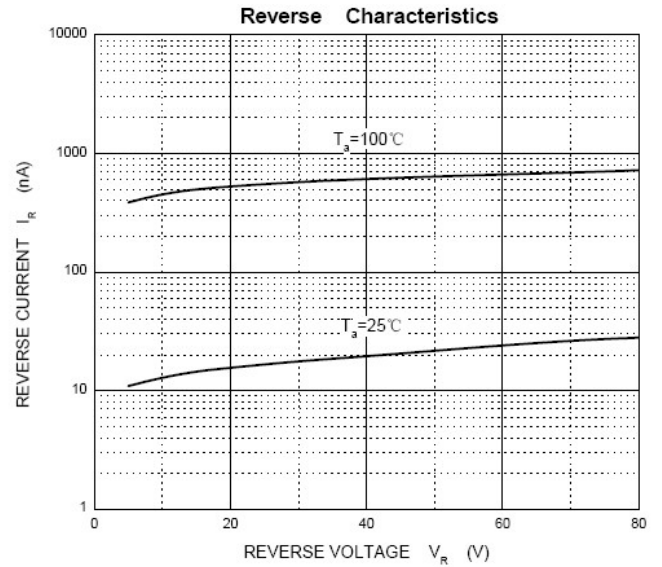
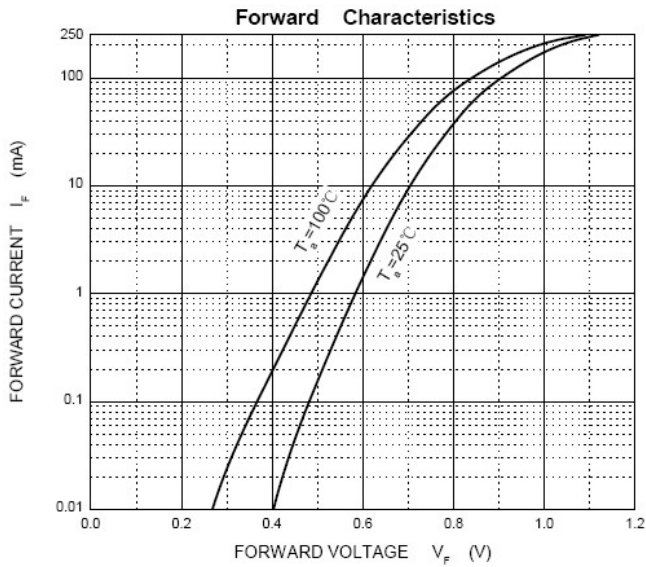
Maximum Ratings& Thermal Characteristics (T _A =25°C unless otherwise noted)			
Parameters	Symbol	Value	Unit
Reverse Voltage	V _R	100	V
Peak Reverse Voltage	V _R RM	100	V
Power Dissipation	P _D	250	mW
Operating junction temperature	T _J	150	°C
Storage temperature range	T _S	-55-+150	°C
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Average Rectified Current	I _O	250	mA
Peak Forward Surge Current @tp=1us; TA=25 °C	I _{FSM}	2.0	A

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T _A =25°C unless otherwise noted)					
Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Reverse Voltage	V _(BR)	IR=100uA	100		V
Reverse Leakage Current	I _R	VR=25V		30	nA
		VR=75V		1	uA
Forward Voltage	V _F	IF=1.0mA		0.715	V
		IF=10mA		0.855	
		IF=50mA		1.00	
		IF=150mA		1.25	
Reverse Recovery Time	T _{RR}	IF = IR = 10mA, Irr=0.1XIR RL=100Ω		4	nS
Capacitance	C _j	VR=0V, f=1MHZ		1.5	pF

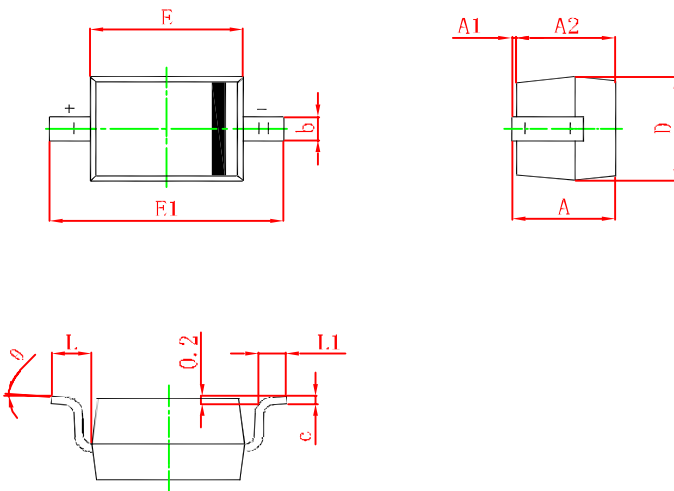
Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ 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	2015.07.16	First issue

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