250mW SOD-323 Fast Switching Diode

Features

- 6.0nS; Fast Switching Device (TRR <6.0 nS)
- 250mW; Power Dissipation of 250mW
- High Stability and High Reliability
- Low reverse leakage

RoHS
COMPLIANT

Marking :T4 **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	75	V
Peak Reverse Voltage	V_{RRM}	85	V
Power Dissipation	P_D	250	mW
Operating junction temperature	T_J	150	℃
Storage temperature range	T_S	-55-+150	℃
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	℃/W
Average Rectified Current	I_O	250	mA
Peak Forward Surge Cu rrent @tp=1us; TA=25 ℃	I_{FSM}	2.0	A

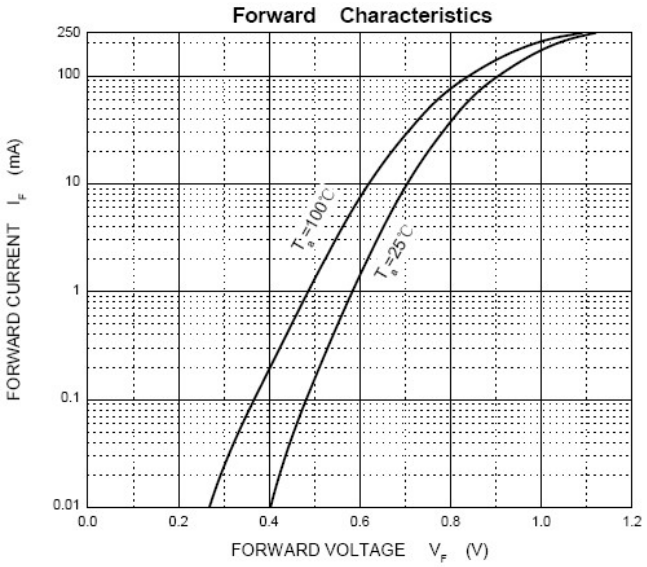
Valid provided that electrodes are kept at ambient temperature.

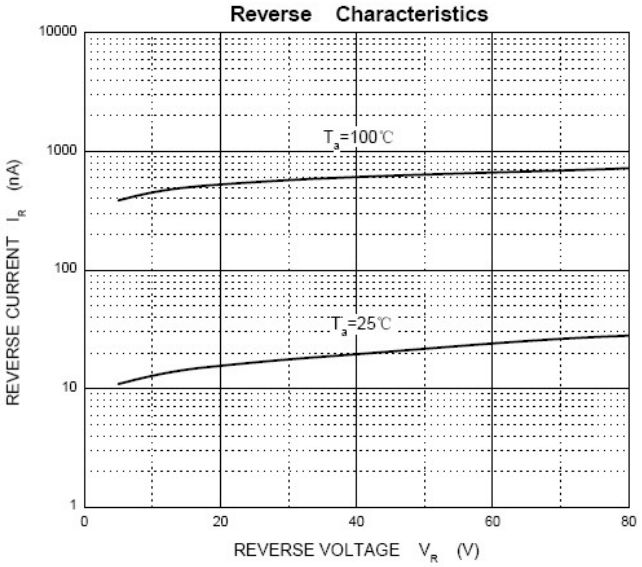
Electrical Characteristics (T_A =25°C unless otherwise noted)

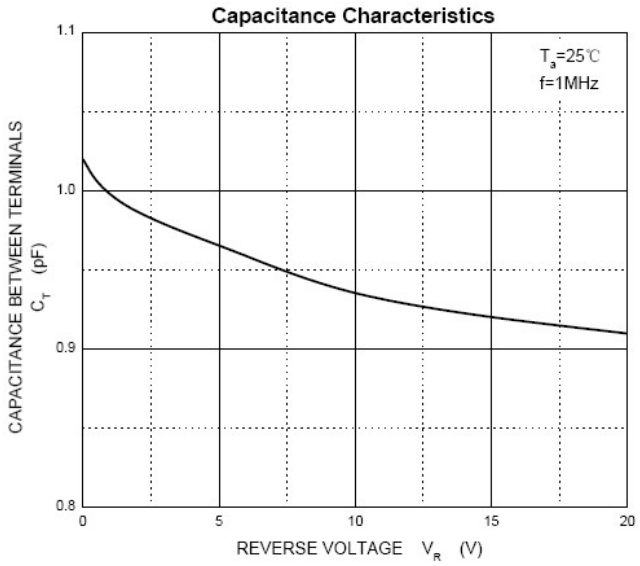
Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Reverse Voltage	$V_{(BR)}$	IR=10uA	75		V
Reverse Leakage Current	IR	VR=25V		30	nA
		VR=75V		1	uA
Forward Voltage	VF	IF=1.0mA		0.715	V
		IF=10mA		0.855	
		IF=50mA		1.00	
		IF=150mA		1.25	
Reverse Recovery Time	TRR	IF = IR = 10mA, Irr=0.1XIR RL=100 Ω		6	nS
Capacitance	Cj	VR=0V, f=1MHZ		2.0	pF

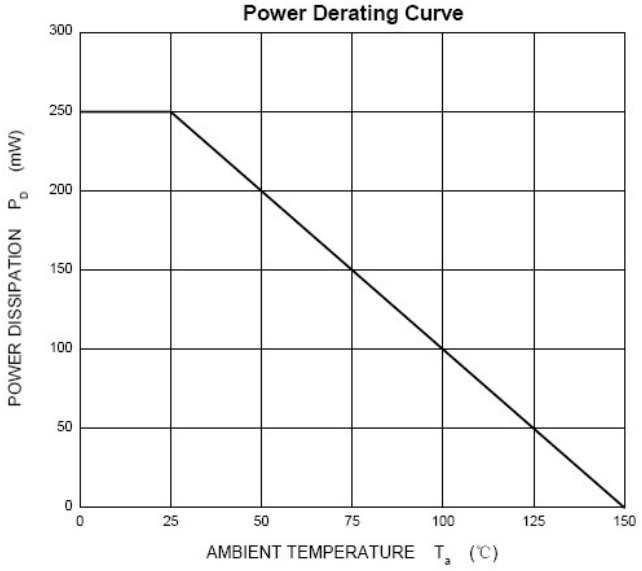
Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)



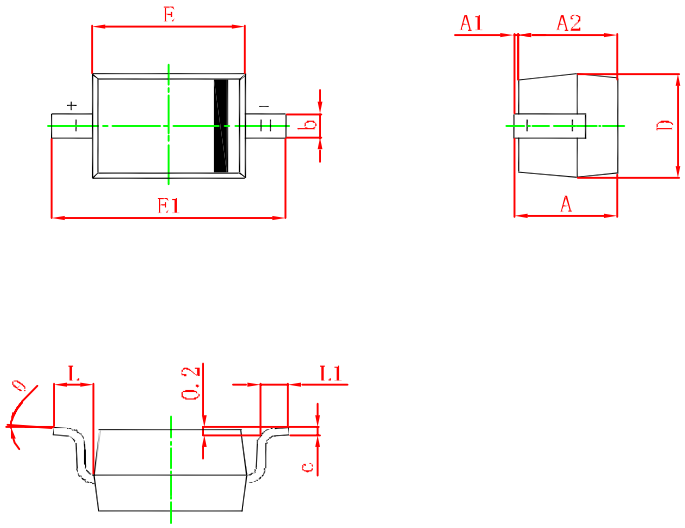






Package Outline Dimensions

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	2016.06.29	First issue

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