200mW SOD-323 Fast Switching Diode

Features

- 50nS; Fast Switching Device (TRR <50 nS)
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage

RoHS
COMPLIANT

Marking :JR

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	200	V
Peak Reverse Voltage	V_{RRM}	200	V
Power Dissipation	P_D	200	mW
Operating junction temperature	T_J	150	℃
Storage temperature range	T_S	-55-+150	℃
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	635	℃/W
Average Rectified Current	I_O	200	mA
Peak Forward Surge Cu rrent @tp=1us; TA=25 ℃	I_{FSM}	625	mA

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	250		V
Reverse Leakage Current	I_R	VR=200V		1	uA
Forward Voltage	V_F	IF=100mA		1.00	V
		IF=200mA		1.25	
Reverse Recovery Time	T_{RR}	IF = IR = 30mA, Irr=0.1XIR RL=100Ω		50	nS
Capacitance	C_j	VR=0V, f=1MHZ		5.0	pF

Ratings and Characteristics Curves

(T_A = 25℃ unless otherwise noted)

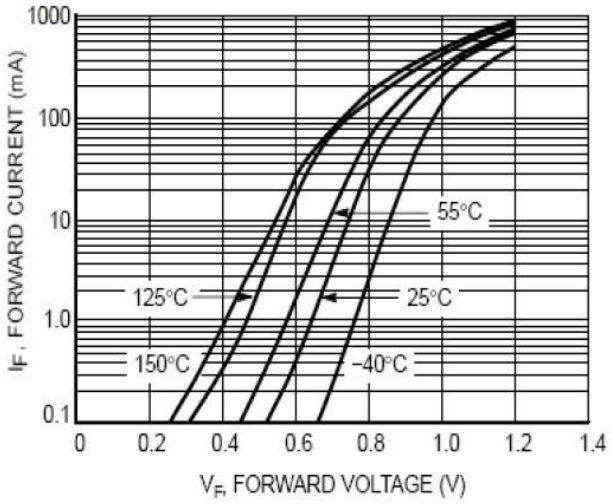


Figure 2. Forward Current

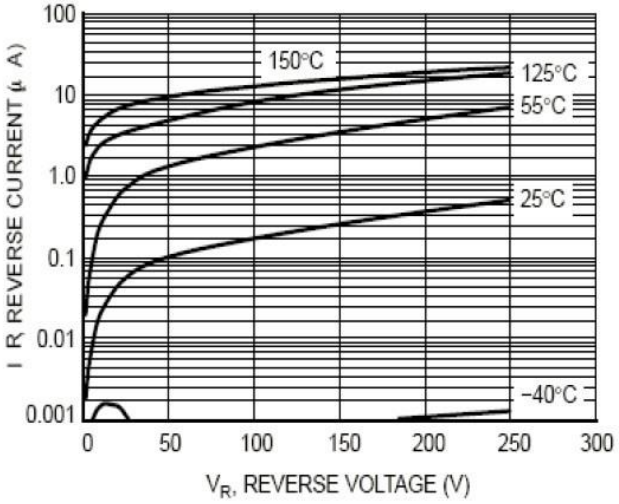


Figure 3. Leakage Current

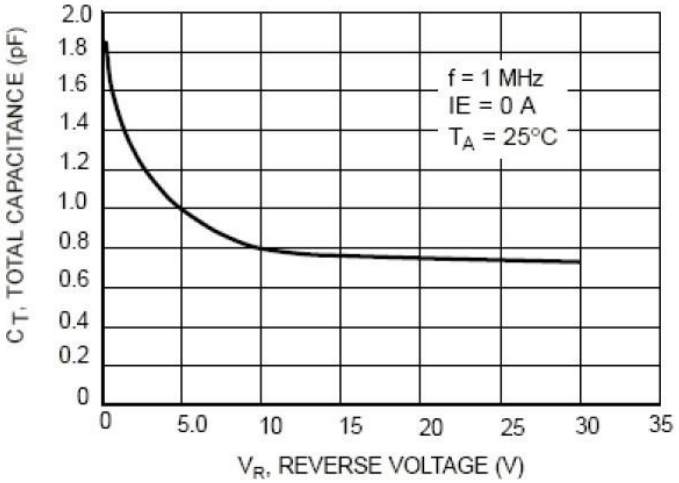
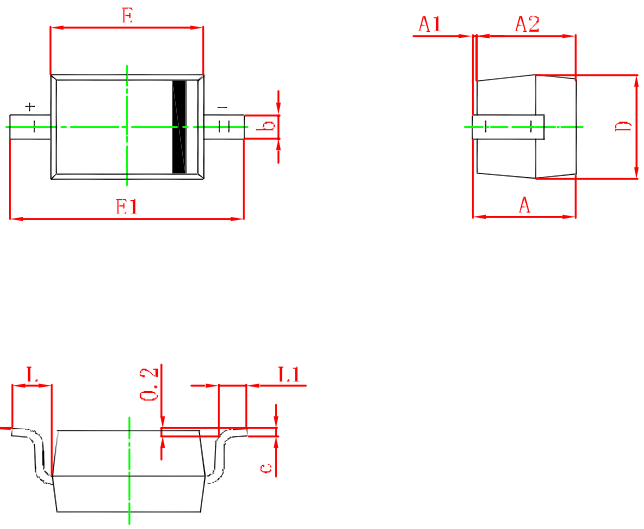


Figure 4. Total Capacitance

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	2018.01.12	First issue

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