

## 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 <sub>A</sub> = 25°C unless otherwise noted)			
Parameters	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	200	V
Peak Reverse Voltage	V <sub>RRM</sub>	200	V
Power Dissipation	P <sub>D</sub>	200	mW
Operating junction temperature	T <sub>J</sub>	150	°C
Storage temperature range	T <sub>S</sub>	-55+150	°C
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	635	°C/W
Average Rectified Current	I <sub>O</sub>	200	mA
Peak Forward Surge Current @tp=1us; TA=25 °C	I <sub>FSM</sub>	625	mA

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T <sub>A</sub> = 25°C unless otherwise noted)					
Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Reverse Voltage	V <sub>(BR)</sub>	IR=100uA	250		V
Reverse Leakage Current	I <sub>R</sub>	VR=200V		1	uA
Forward Voltage	V <sub>F</sub>	IF=100mA		1.00	V
		IF=200mA		1.25	
Reverse Recovery Time	T <sub>RR</sub>	IF = IR = 30mA, Irr=0.1XIR RL=100Ω		50	nS
Capacitance	C <sub>j</sub>	VR=0V, f=1MHZ		5.0	pF

## Ratings and Characteristics Curves

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

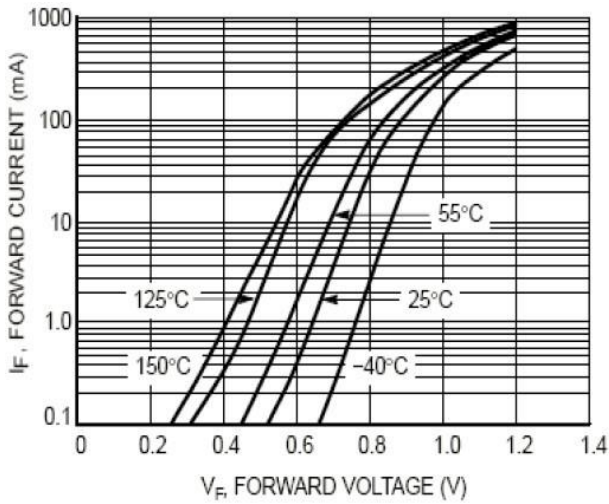


Figure 2. Forward Current

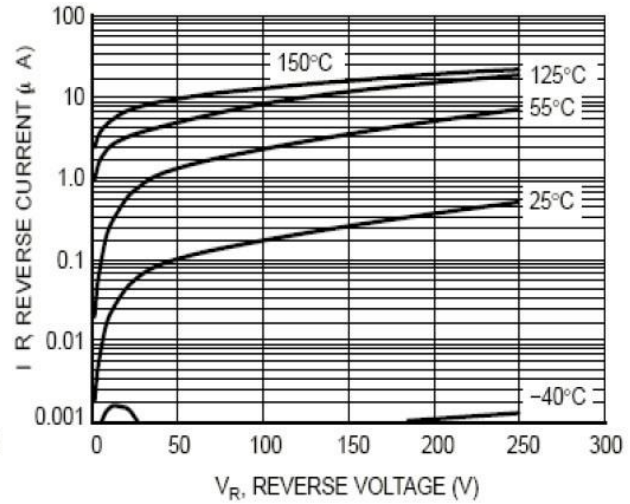


Figure 3. Leakage Current

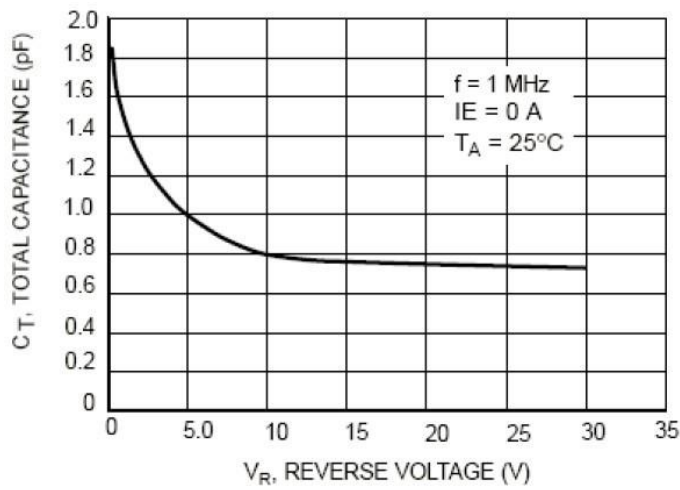
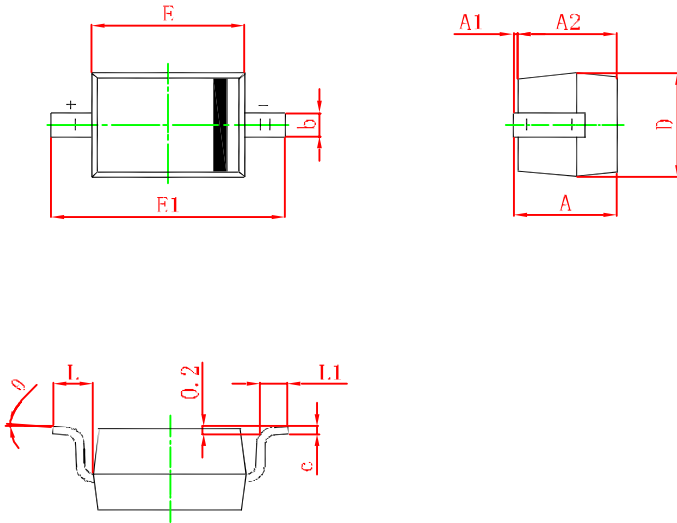


Figure 4. Total Capacitance

## 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
$\theta$	0°	8°

## Revision History

Document Version	Date of release	Description of changes
Rev.A	2018.01.12	First issue

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