

## 200mWSOD-323 Low Leakage Switching Diode

### Features

- 3.0nS; Fast Switching Device (TRR <3.0 nS)
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage



**RoHS**  
COMPLIANT



**Marking: PA SOD-323**

### Mechanical Data

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

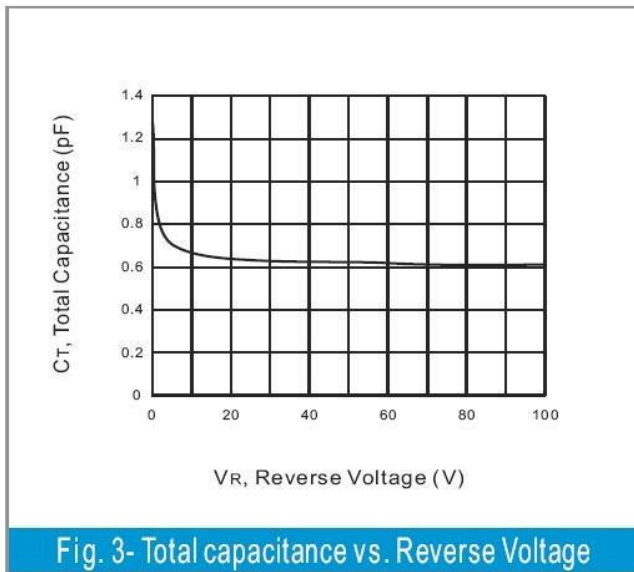
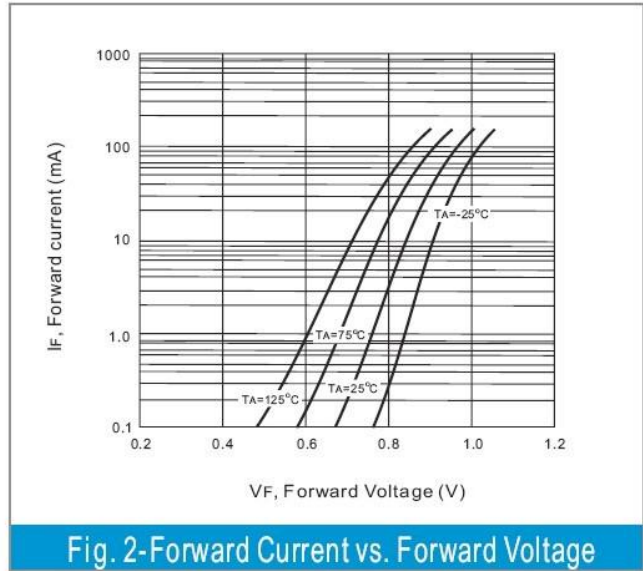
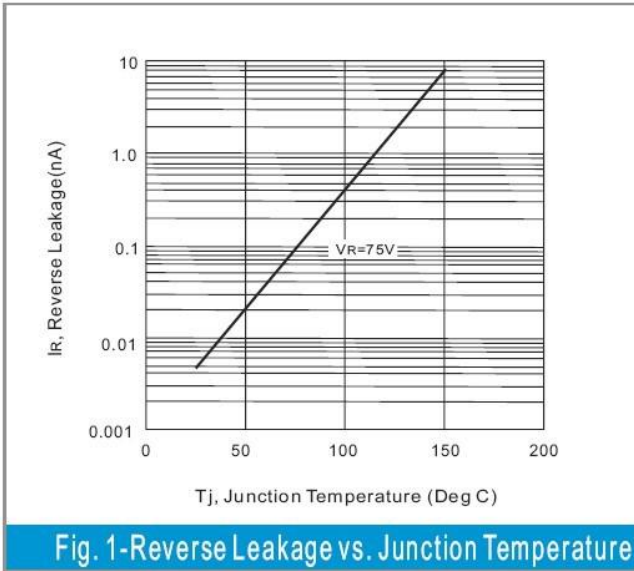
Maximum Ratings & Thermal Characteristics (T <sub>A</sub> =25°C unless otherwise noted)			
Parameters	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	75	V
Peak Reverse Voltage	V <sub>RM</sub>	100	V
Power Dissipation	P <sub>D</sub>	200	mW
Operating junction temperature	T <sub>J</sub>	-55-+150	°C
Storage temperature range	T <sub>S</sub>	-55-+150	°C
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	625	°C/W
Non-repetitive Peak Forward Current	I <sub>FM</sub>	200	mA
Peak Forward Surge Current @tp=1us; TA=25 °C	I <sub>FSM</sub>	2.0	A

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	75		V
Reverse Leakage Current	I <sub>R</sub>	VR=75		5	nA
		VR=75 Tj=150°C		80	nA
Forward Voltage	V <sub>F</sub>	IF=1.0mA		0.9	V
		IF=10mA		1.00	
		IF=50mA		1.10	
		IF=150mA		1.25	
Reverse Recovery Time	T <sub>RR</sub>	IF = IR = 10mA, Irr=0.1XIR RL=100Ω		30	uS
Capacitance	C <sub>J</sub>	VR=0V, f=1MHZ		2.0	pF

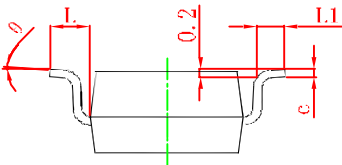
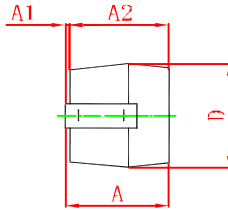
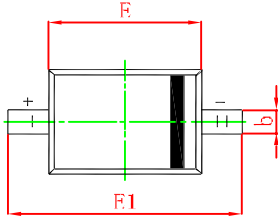
## Ratings and Characteristics Curves

( $T_A = 25^\circ\text{C}$  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
$\theta$	$0^\circ$	$8^\circ$

## Revision History

Document Version	Date of release	Description of changes
Rev.A	2016.06.29	First issue

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