

### Features

- Low Forward Voltage Drop
- Extremely Small SOD-323 Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Band Indicates Cathode
- Marking: JU4
- Tape and reel: 3,000Pcs/ 7" reel

### SOD-323



### Applications

- Low voltage rectification
- Reverse polarity protection
- Low power consumption applications

### Maximum Ratings @Ta=25°C

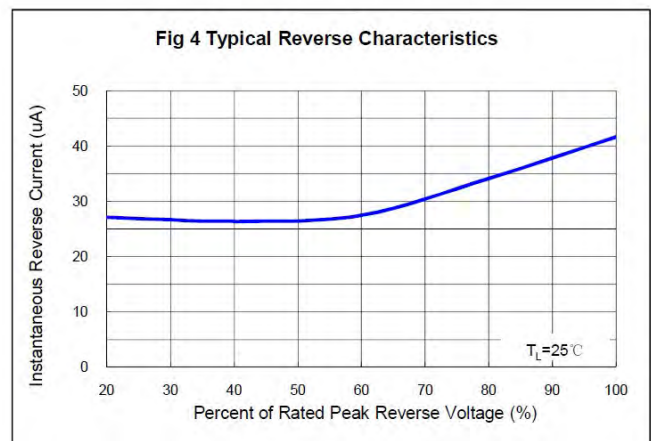
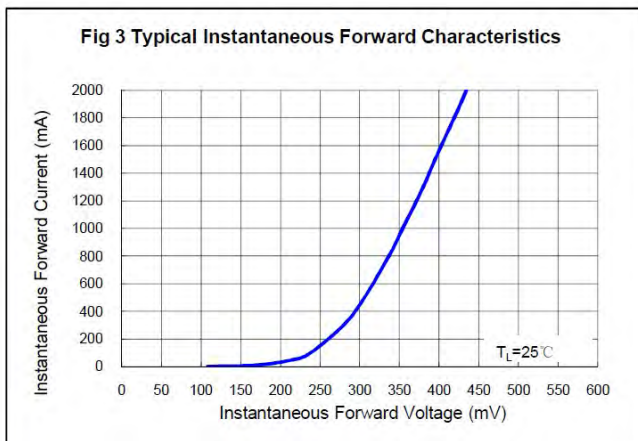
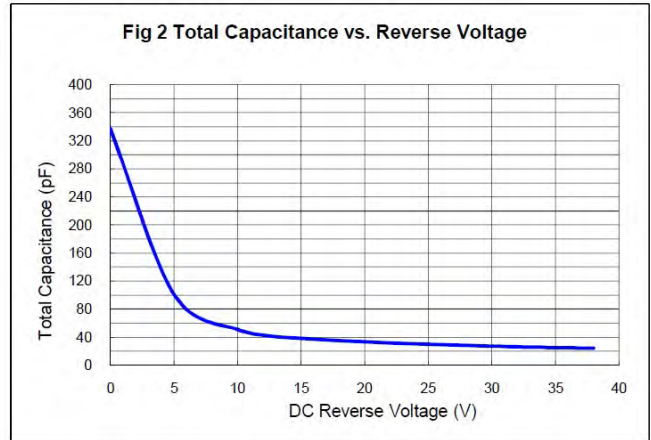
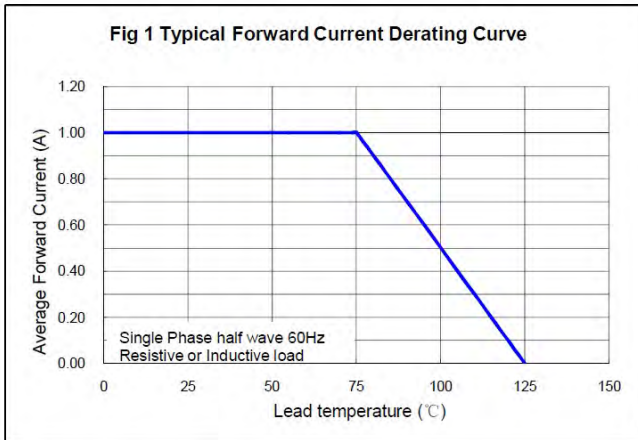
Symbol	Parameter	Value	Units
$V_{RRM}$	Maximum repetitive reverse voltage	40	V
$V_R$	Maximum DC blocking reverse voltage	40	V
$I_{F(AV)}$	Average Forward Current	2	A
$I_{FSM}$	Peak Forward Surge Current (At 8.3ms single half sine-wave)	20	A
$T_J$	Operating Junction Temperature	-50 to +125	°C
$T_{STG}$	Storage Temperature Range	-50 to +150	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

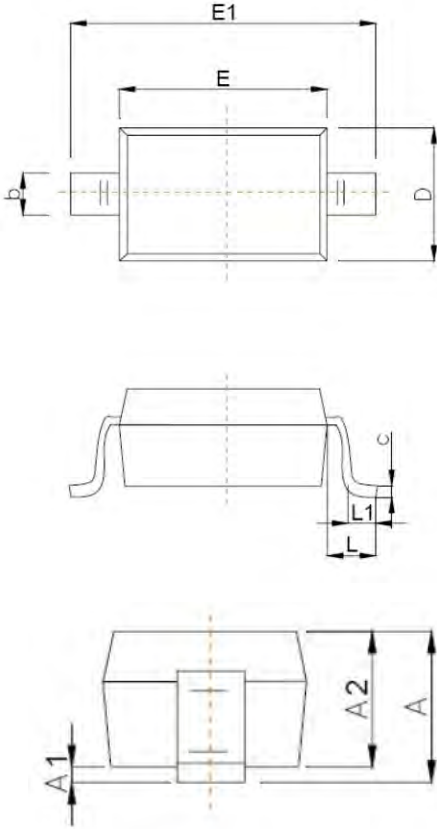
### Electrical Characteristics @Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at $I_R=0.1mA$	$V_{BR}$	40			V
Reverse Leakage Current at $V_R=40V$	$I_R$			80	$\mu A$
Forward Voltage at $I_F=1A$	$V_F$		0.37	0.42	V
Forward Voltage at $I_F=2A$	$V_F$			0.50	V
Junction Capacitance $V_R = 0V, f = 1MHz$	$C_J$		340	400	pF

## Typical Characteristics

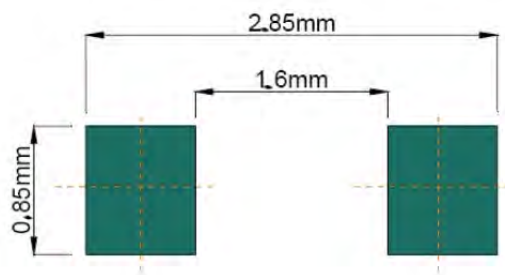


## SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters	
	Min	Max
A		1.00
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
e	1.800	2.040
L	0.475 REF	
L1	0.250	0.400
θ	0°	8°

## Suggested Pad Layout



### NOTICE

Leiditech reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Leiditech does not assume any liability arising out of the application or use of any product described herein.