

2A Schottky Barrier Diode

DESCRIPTION

- 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 RATING ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

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	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-50 to +150	$^{\circ}\text{C}$

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

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

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

ELECTRICAL CHARACTERISTICS CURVE

Fig 1 Typical Forward Current Derating Curve

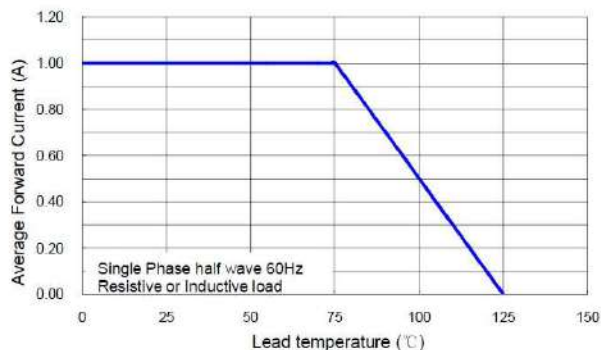


Fig 2 Total Capacitance vs. Reverse Voltage

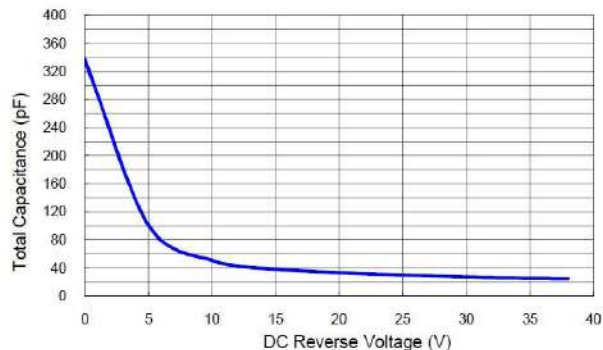


Fig 3 Typical Instantaneous Forward Characteristics

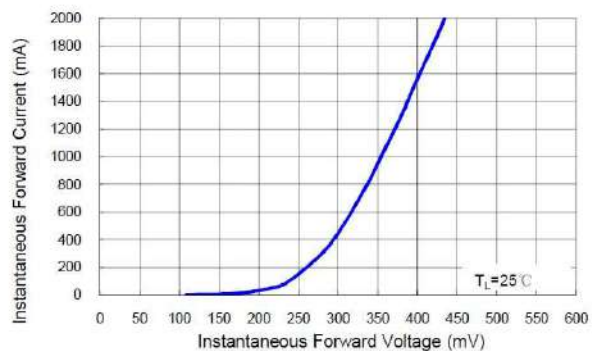
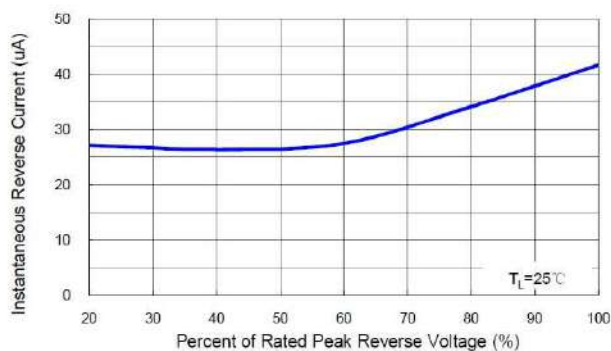
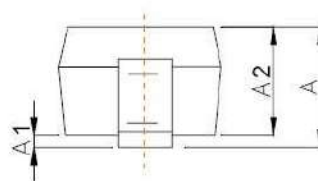
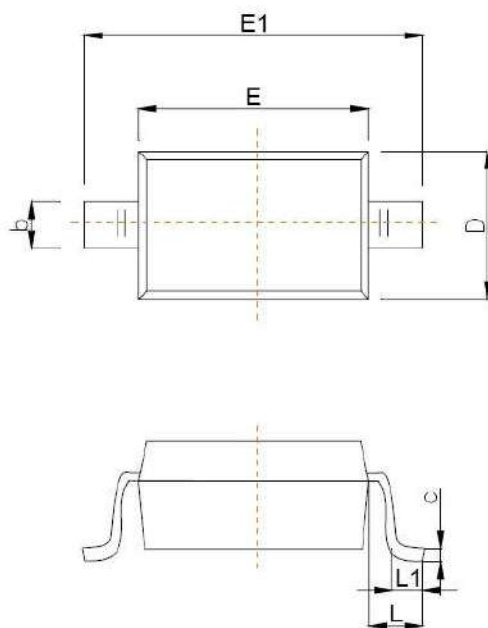


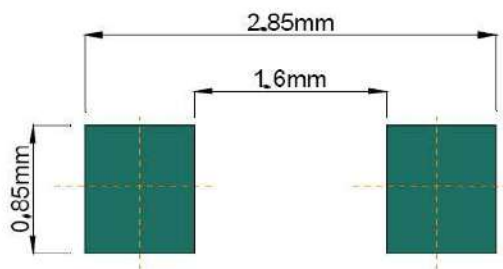
Fig 4 Typical Reverse Characteristics



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
e	0°	8°



Recommended Pad outline