

Schottky rectifier

Features

- Low profile package
- Ideal for automated placement
- Ultra high-speed switching
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
260°C/10 seconds at terminals Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

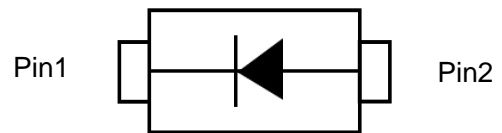
SOD-323 Surface Mount



SOD-323

Mechanical Data

- **Case:** SOD323 molded plastic
- **Terminals:** Solder plated, solderable per JESD22-B102
- **Polarity:** Laser band denotes cathode end



Circuit Diagram

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{RRM}	Maximum repetitive peak reverse voltage	60	V
V _{RMS}	Maximum RMS voltage	28	V
V _{DC}	Maximum DC blocking voltage	60	V
I _{F(AV)}	Maximum average forward rectified current	1.0	A
I _{FSM}	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	9	A
dv/dt	Voltage rate of change (rated V _R)	10000	V/μs
R _{θJL}	Thermal resistance from junction to lead	35	°C/W
T _J , T _{STG}	Operating junction and storage temperature range	- 65 to +125	°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Items	Test conditions	Symbol	Type	UNIT
Instantaneous forward voltage	I _F = 1.0A	V _F	0.55	V
Reverse current	V _R = V _{DC}	I _R	T _J = 25°C	0.1
			T _J = 100°C	10
				mA

Typical Performance Characteristics (T_A = 25°C unless otherwise Specified)

Fig 1. Forward Current Derating Curve

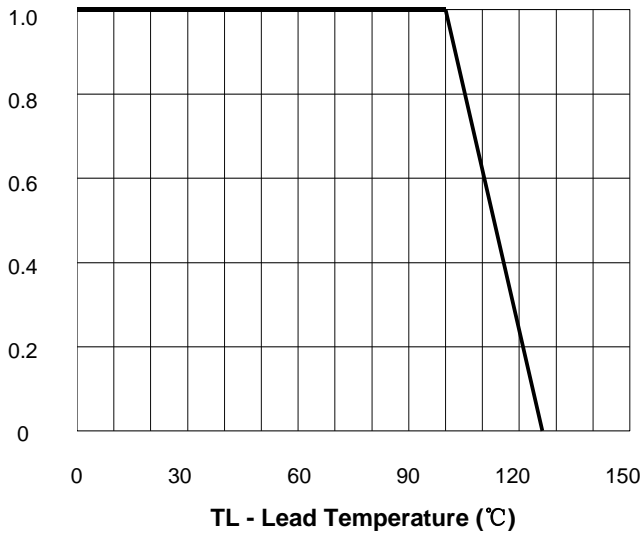


Fig 2. Maximum Non-Repetitive Peak Forward Surge Current

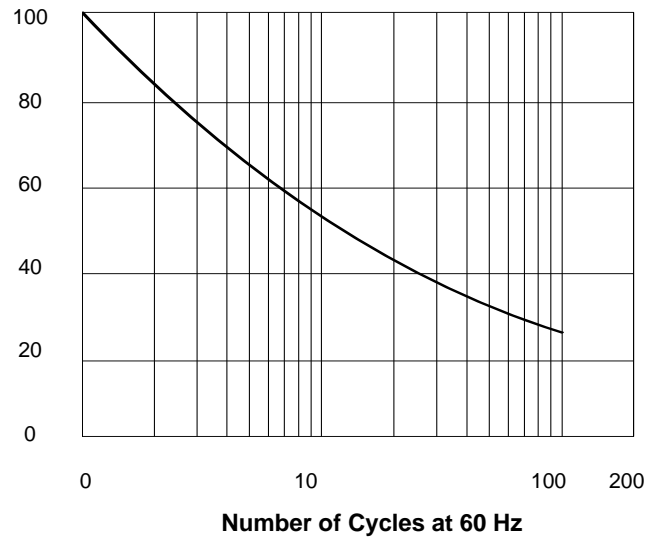


Fig 3. Typical Instantaneous Forward

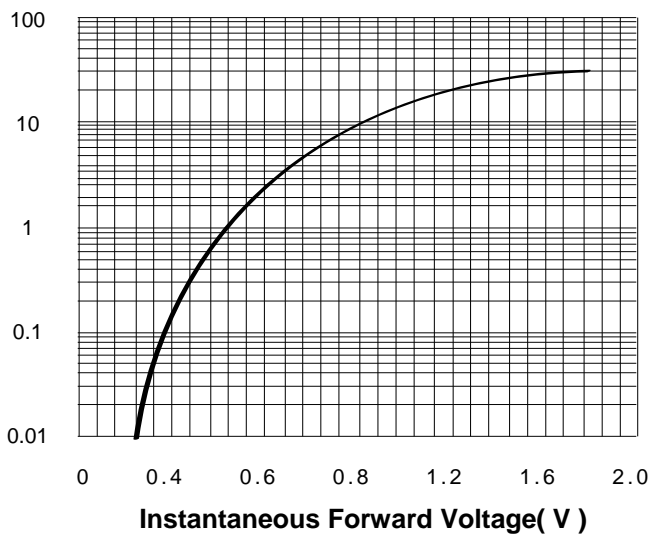
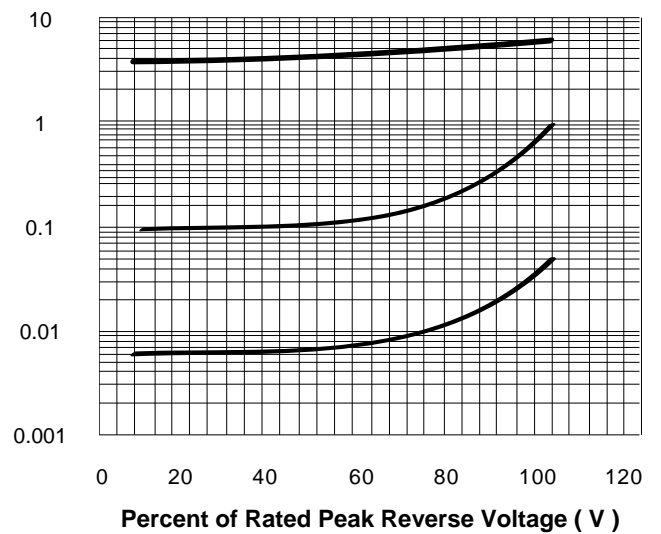
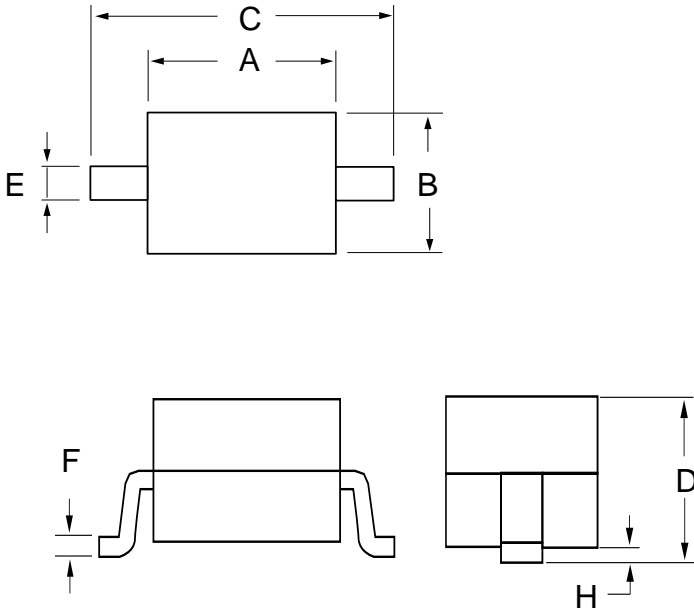


Fig 4. Typical Reverse Leakage Characteristics

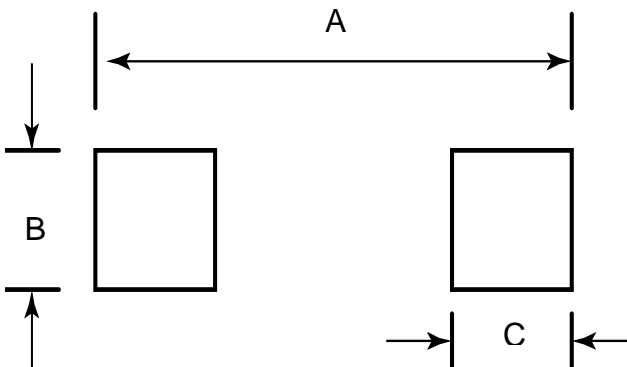


SOD-323 Package Outline Drawing



SYM	DIMENSIONS			
	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.60	1.95	0.063	0.077
B	1.10	1.50	0.043	0.059
C	2.30	3.10	0.104	0.122
D	0.80	1.15	0.031	0.045
E	0.20	0.45	0.008	0.018
F	0.10	0.15	0.004	0.006
H	-	0.10	-	0.004

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.20	0.126
B	0.60	0.024
C	0.80	0.031