

### Features

- Ultra Small mold type. (SOD323)
- Low VF; Low IR.
- High reliability.

### Applications

- Low current rectification

### Construction

- Silicon epitaxial planar

### Mechanical Characteristics

- Mounting position: Any

**SOD323**



**Pin Configuration**



**Circuit Diagram**

### Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse voltage(repetitive peak)	V <sub>RM</sub>	45	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward current	I <sub>o</sub>	1	A
Peak forward current( Pulse Width=1us, Single Pulse)	I <sub>PK</sub>	25	A
Peak forward surge current(8.33ms 1/2sine waveform with single pulse)	I <sub>FSM</sub>	8	A
Power Dissipation	PD	500	mW
Operating Junction temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +125	°C

**Electrical Characteristics** (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	--	0.5	0.55	V	I <sub>F</sub> = 1A
Forward voltage	V <sub>F</sub>	--	0.43	0.48	V	I <sub>F</sub> = 0.5A
Reverse current	I <sub>R</sub>	--	--	0.1	mA	V <sub>R</sub> =40V
Junction Capacitance	C <sub>j</sub>	--	120	--	PF	V <sub>R</sub> =0V f =1MHz

**Characteristic Curves**

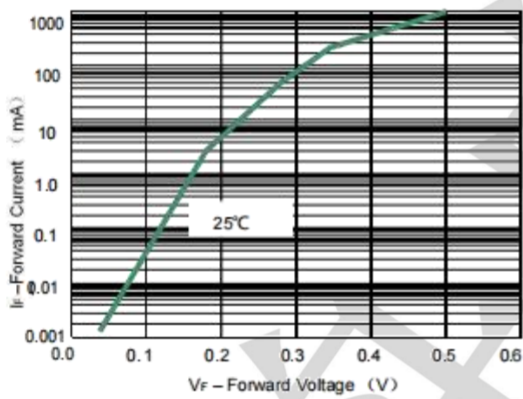


Fig 1. Forward Voltage

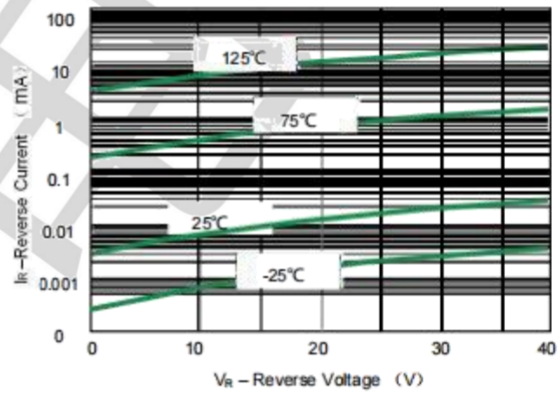
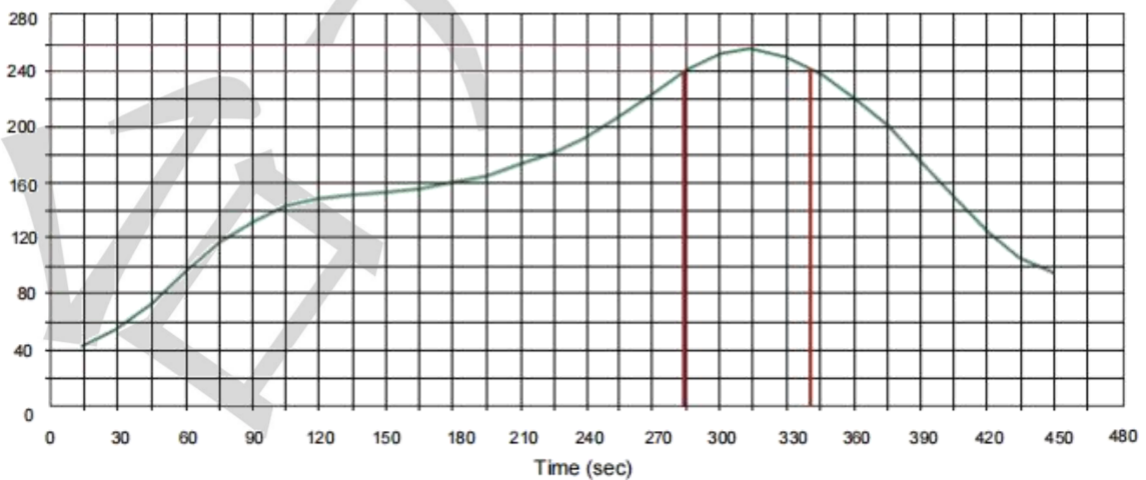


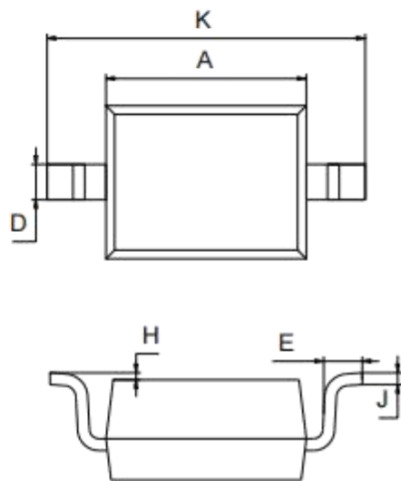
Fig 2. Leakage Current

**Solder Reflow Recommendation**

Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

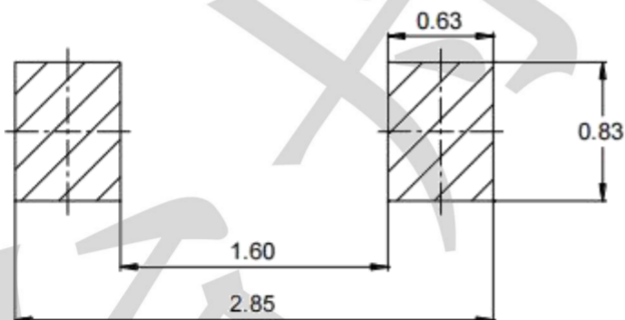


**Package Outline & Dimensions**  
**SOD323**



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

**Mounting Pad Layout-SOD323 (unit: mm)**



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