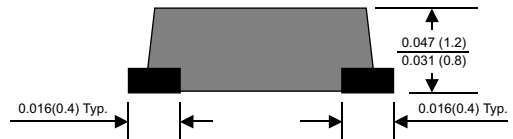
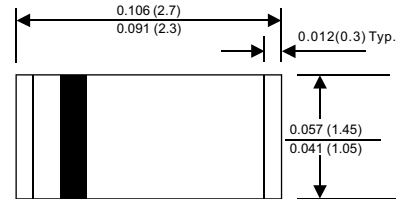


Current : 1 Amp  
Voltage : 20 to 60 V

### Features

- Plastic package has Underwriters Laboratory flammability classification 94V-0 utilizing flame retardant epoxy molding compound.
- For surface mount applications.
- Exceeds environmental standards of MIL-S-19500/228.
- Low leakage current.

### SOD-323



Dimensions in inches and (millimeter)

### Mechanical data

- Case: JEDEC SOD-323 , Molded plastic
- Terminals: Solde plated, solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band.
- Mounting position: Any

### Maximum Ratings and Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Symbol	SS12N	SS13N	SS14N	SS15N	SS16N	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Continuous reverse voltage	V <sub>R</sub>	20	30	40	50	60	V
Maximum forward voltage @I <sub>F</sub> =1.0A	V <sub>F</sub>	0.55			0.70		V
Forward rectified current	I <sub>O</sub>	1.0					A
Forward surge current, 8.3ms half sine wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30					A
Reverse current on V <sub>R</sub> =V <sub>RWM</sub> @T <sub>A</sub> =25°C @T <sub>A</sub> =125°C	I <sub>R</sub>	0.5 10					mA
Thermal resistance, junction to ambient air	R <sub>θJA</sub>	90					°C/W
Diode junction capacitance (Note 1)	C <sub>J</sub>	120					pF
Operating junction temperature	T <sub>J</sub>	-55 to +125			-55 to +150		°C
Storage temperature	T <sub>STG</sub>	-55 to +150					°C

Note 1: f=1MHz and applied 4V DC reverse voltage.



### Rating and Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

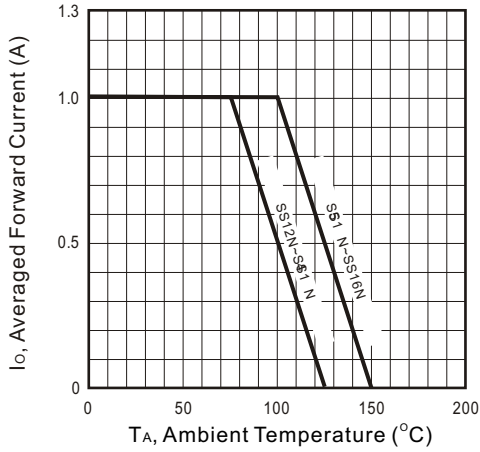


Fig.2 Typical Forward Characteristics

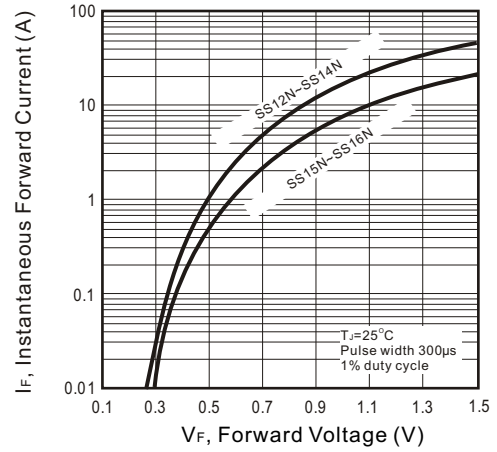


Fig.3 Maximum Non-repetitive Peak Forward Surge Current

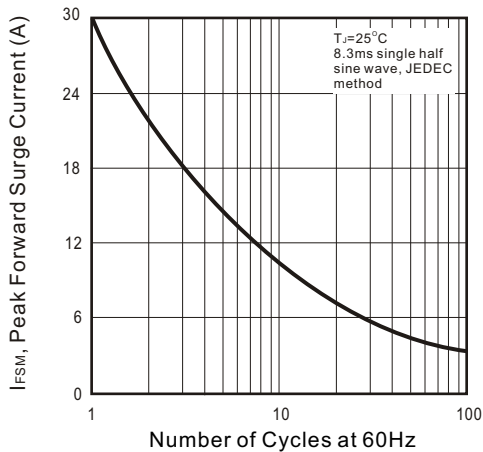


Fig.4 Typical Junction Capacitance

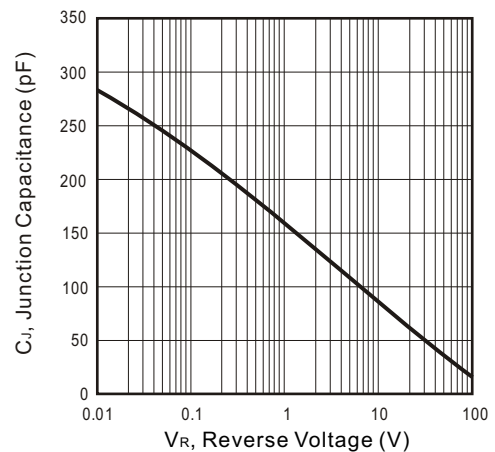


Fig.5 Typical Reverse Characteristics

