

**Power Schottky Rectifier - 3Amp 45Volt**

**Features**

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- Halogen-Free

**Mechanical data**

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.002 ounce 0.064 grams

**Maximum ratings and Electrical characteristics**

Parameters	SSR3L45	UNIT
Maximum Recurrent Peak Reverse Voltage	45	V
Maximum RMS Voltage	32	V
Maximum DC Blocking Voltage	45	V
Maximum Average Forward Rectified Current	3	A
Peak Forward Surge Current	80	A
Maximum Instantaneous Forward Voltage at 3A	Tc = 25°C	0.44
	Tc = 125°C	0.34
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5
	Tc = 100°C	20
Typical Junction Capacitance	150	pF
Typical Thermal Resistance R <sub>θJL</sub> (Note 1)	25	°C/W
Operating and Storage Temperature Range	-50 to +125	°C

Note : 1. Mounted on P.C.B with copper pad size 8mm x 8mm

# SSR3L45

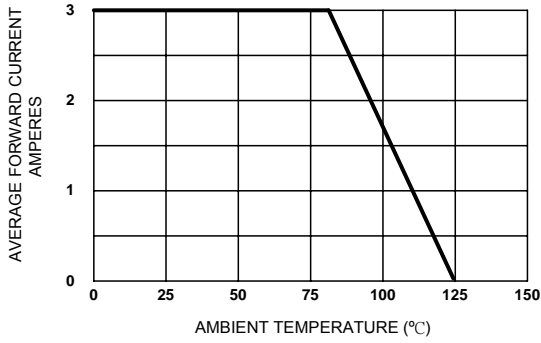


Figure 1. Forward Current Derating Curve

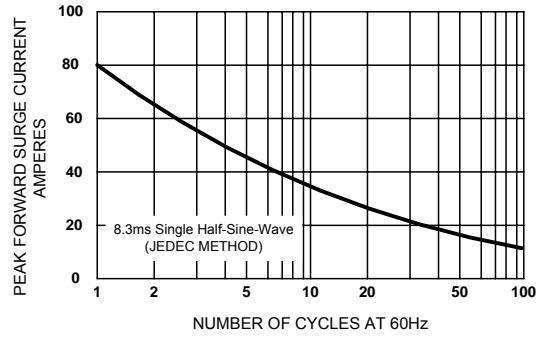


Figure 2. Maximum Non-repetitive Surge Current

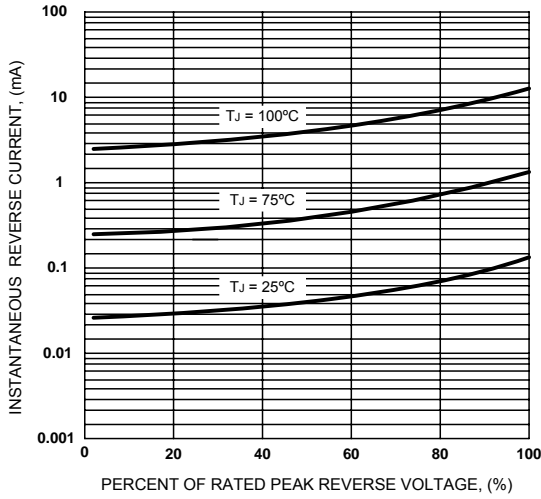


Figure 3. Typical Reverse Characteristics

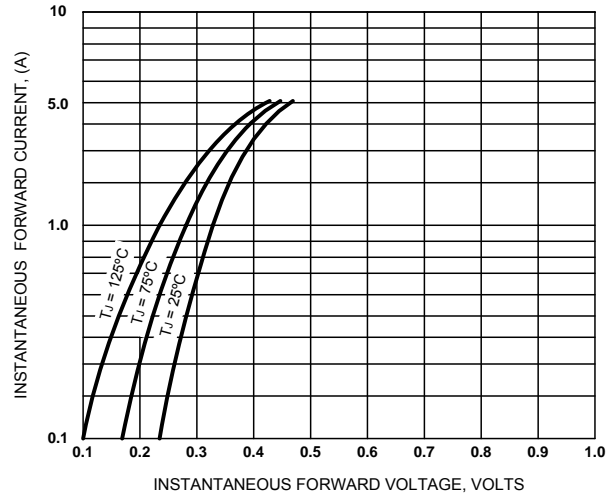


Figure 4. Typical Forward Characteristics

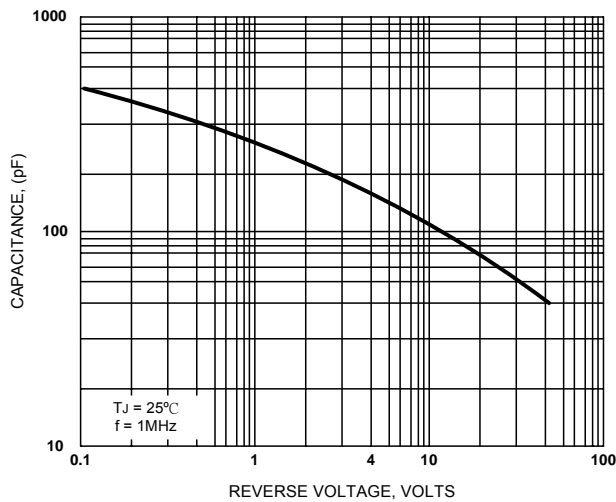


Figure 5. Typical Junction Capacitance



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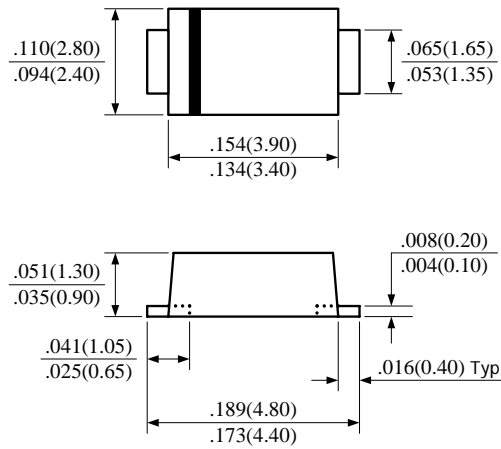
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# SSR3L45

## SMA - FS



UNIT : inch(mm)

