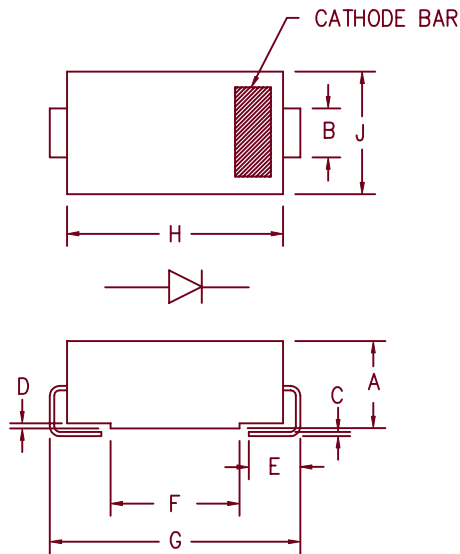


1 Amp Schottky Rectifier SS13 — SS14



| Dim. | Inches | | Millimeter | | Notes |
|------|---------|---------|------------|---------|-------|
| | Minimum | Maximum | Minimum | Maximum | |
| A | .078 | .115 | 1.98 | 2.92 | |
| B | .068 | .087 | 1.73 | 2.21 | |
| C | --- | .005 | --- | 0.13 | |
| D | --- | .020 | --- | 0.51 | |
| E | .030 | .060 | 0.76 | 1.52 | |
| F | .065 | .084 | 1.65 | 2.13 | |
| G | .194 | .228 | 4.93 | 5.79 | |
| H | .157 | .177 | 3.99 | 4.50 | |
| J | .100 | .110 | 2.57 | 2.79 | |

SMA (DO-214AC)

| Microsemi Catalog Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|--------------------------|------------------------------|---------------------------------|
| SS13 | 30V | 30V |
| SS14 | 40V | 40V |

- Low Forward Voltage
- Schottky Barrier Rectifier
- Guard Ring Protection
- 125°C Junction Temperature
- V_{RRM} 30 to 40 Volts

| Electrical Characteristics | | | |
|---|--------------------|-------------------------------------|--|
| Average forward current | $I_F(AV)$ 1.0 Amps | $T_A = 75^\circ C$, Square wave | |
| Maximum surge current | I_{FSM} 30 Amps | 8.3ms, half sine | |
| Max peak forward voltage (SS13) | V_{FM} .55 Volts | $I_{FM} = 1.0A; T_J = 25^\circ C^*$ | |
| Max peak forward voltage (SS14) | V_{FM} .60 Volts | $I_{FM} = 1.0A; T_J = 25^\circ C^*$ | |
| Max peak reverse current | I_{RM} 0.5 mA | $V_{RRM}, T_J = 25^\circ C$ | |
| Typical junction capacitance | C_J 110pF | $V_R = 4.0V, T_J = 25^\circ C$ | |
| *Pulse test: Pulse width 300 μ sec. Duty cycle 2% | | | |

| Thermal and Mechanical Characteristics | | |
|--|-----------------|-----------------------------------|
| Storage temperature range | T_{STG} | -55°C to 150°C |
| Operating junction temp range | T_J | -55°C to 125°C |
| Typical thermal Resistance | $R_{\theta JL}$ | 15°C/W Junction to lead |
| Weight | | .0047 ounces (.013 grams) typical |

9-27-02 Rev. 1