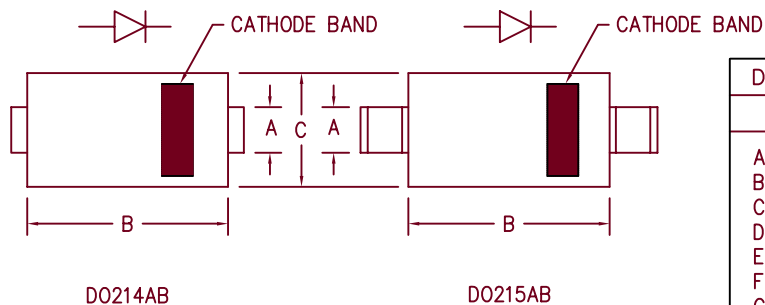
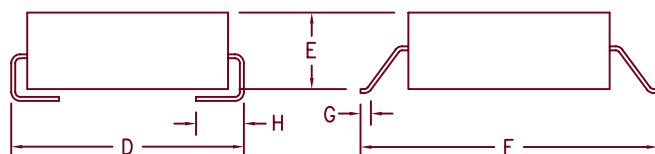


8 Amp Schottky Rectifier HSM880 — HSM8100



| Dim. | Inches | | Millimeter | | Notes |
|------|---------|---------|------------|---------|-------|
| | Minimum | Maximum | Minimum | Maximum | |
| A | .117 | .123 | 2.97 | 3.12 | |
| B | .260 | .280 | 6.60 | 7.11 | |
| C | .220 | .245 | 5.59 | 6.22 | |
| D | .307 | .322 | 7.80 | 8.18 | |
| E | .075 | .095 | 1.91 | 2.41 | |
| F | .380 | .400 | 9.65 | 10.16 | |
| G | .025 | .040 | .640 | 1.02 | |
| H | .030 | .060 | .760 | 1.52 | |



| Microsemi Catalog Number | Industry Part Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|-----------------------------|-------------------------|---------------------------------|------------------------------------|
| HSM880* | SK88L | 80V | 80V |
| HSM890* | | 90V | 90V |
| HSM8100* | SK810L | 100V | 100V |

*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- High Current Capability
- V_{RRM} 80 to 100 Volts
- Surface mount packages

Electrical Characteristics

| | | |
|------------------------------|----------------------|---------------------------------------|
| Average forward current | $I_F(AV)$ 8.0 Amps | Square wave |
| Maximum surge current | $I_F(AV)$ 300 Amps | 8.3ms, half sine, $T_J = 175^\circ C$ |
| Max peak forward voltage | V_{FM} .61 Volts | $I_{FM} = 8.0A; T_J = 175^\circ C$ * |
| Max peak forward voltage | V_{FM} .78 Volts | $I_{FM} = 8.0A; T_J = 25^\circ C$ * |
| Max peak reverse current | I_{RM} 500 μA | $V_{RRM}, T_J = 25^\circ C$ |
| Typical junction capacitance | C_J 480pF | $V_R = 5.0V, T_J = 25^\circ C$ |

* Pulse test: Pulse width 300 μsec , Duty cycle 2%

Thermal and Mechanical Characteristics

| | | |
|-------------------------------|-----------------|---------------------------------|
| Storage temperature range | T_{STG} | -55°C to 175°C |
| Operating junction temp range | T_J | -55°C to 175°C |
| Maximum thermal resistance | $R_{\theta JL}$ | 20°C/W Junction to lead |
| Weight | | .008 ounces (.22 grams) typical |



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05-15-07 Rev. 4

HSM880 — HSM8100

Figure 1
Typical Forward Characteristics

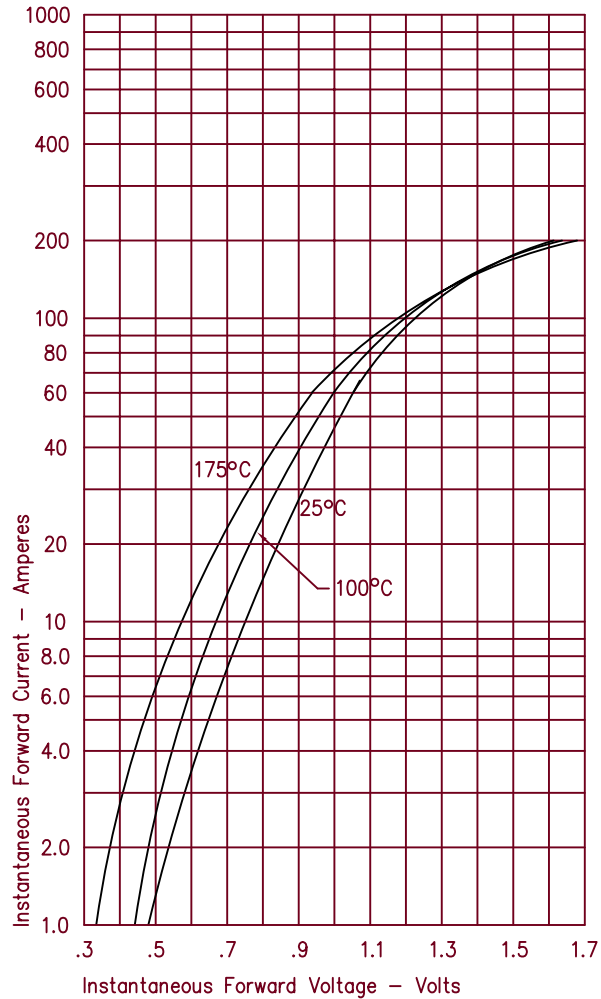


Figure 3
Typical Junction Capacitance

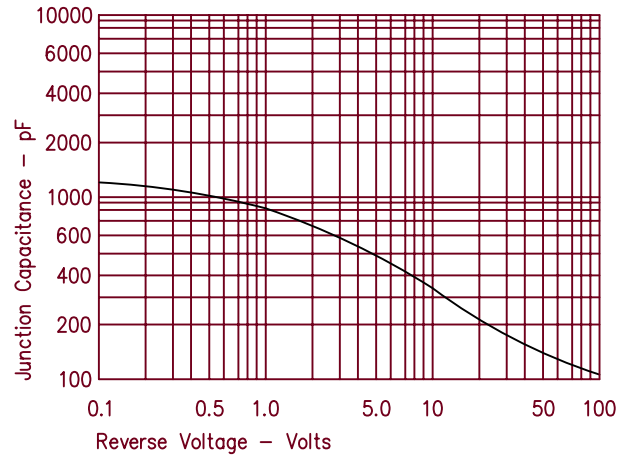


Figure 2
Typical Reverse Characteristics

