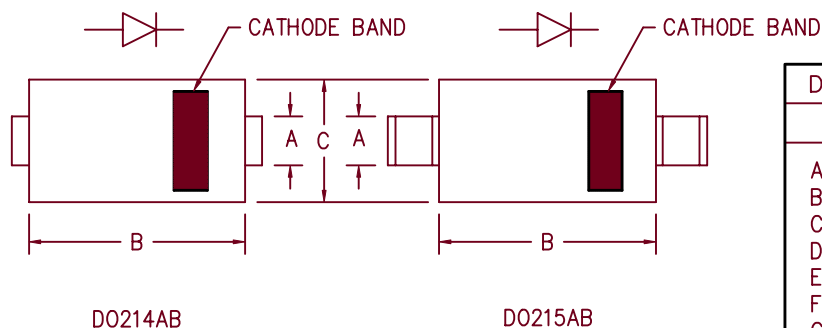
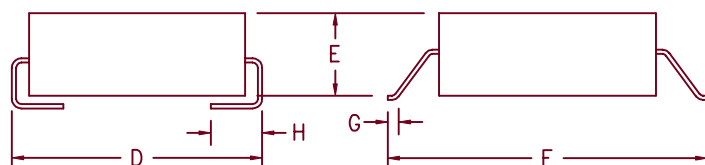


3 Amp Schottky Rectifier

LSM335 — LSM345



| 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 |
|-----------------------------|----------------------------------|------------------------------------|---------------------------------------|
| LSM335* | | 35V | 35V |
| LSM340* | 30BQ040 15MQ040N MBRS340TR | 40V | 40V |
| LSM345* | | 45V | 45V |

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

- Schottky Barrier Rectifier
- Guard ring protection
- Low forward voltage
- 150°C Junction temperature
- Reverse energy tested

Electrical Characteristics

| | | |
|------------------------------|-----------------------------|---|
| Average forward current | I _{F(AV)} 3.0 Amps | Square wave |
| Maximum surge current | I _{FSM} 150 Amps | 8.3ms, half sine, T _J = 150°C |
| Max peak forward voltage | V _{FM} .45 Volts | I _{FM} = 1.0A; T _J = 25°C * |
| Max peak forward voltage | V _{FM} .52 Volts | I _{FM} = 3.0A; T _J = 25°C * |
| Max peak forward voltage | V _{FM} .76 Volts | I _{FM} = 9.4A; T _J = 25°C * |
| Max peak reverse current | I _{RM} 1.5 mA | V _{RRM} , T _J = 25°C |
| Typical junction capacitance | C _J 265 pF | V _R = 5.0V, T _J = 25°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 150°C |
| Maximum thermal resistance | R _{ΘJL} | 25°C/W Junction to lead |
| Weight | | .008 ounces (.22 grams) typical |

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LSM335 — LSM345

Figure 1
Typical Forward Characteristics

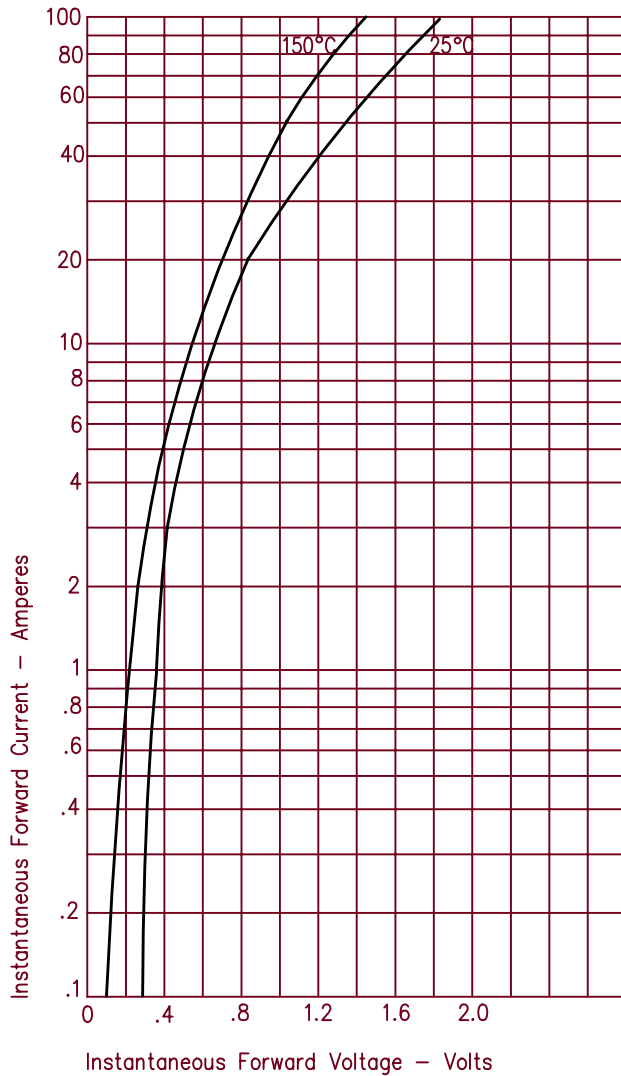


Figure 3
Typical Junction Capacitance

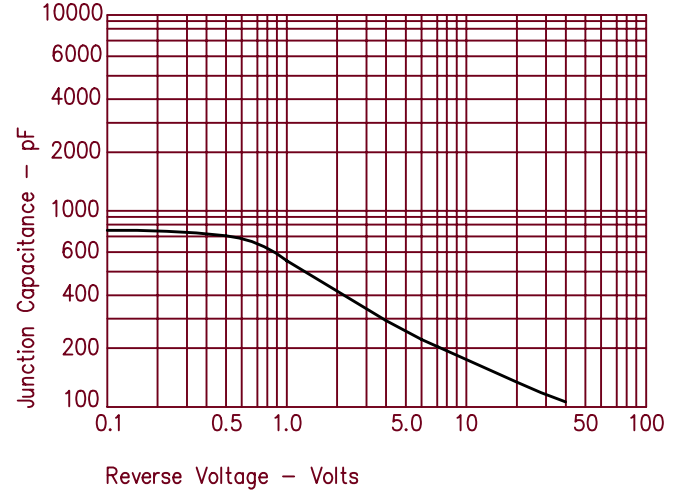


Figure 2
Typical Reverse Characteristics

