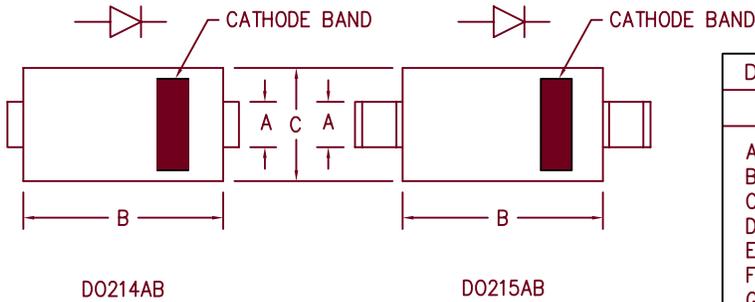


# 5 Amp Schottky Rectifier HSM550, HSM560



| 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 |
|--------------------------|----------------------|------------------------------|---------------------------------|
| HSM550*                  | SK55L, B550C         | 50V                          | 50V                             |
| HSM560*                  | SK56L, B560C         | 60V                          | 60V                             |

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

- Schottky Barrier Rectifier
- Guard Ring Protection
- High Current Capability
- 175°C Junction Temperature
- Surface mount packages

| Electrical Characteristics   |                             |  |  |
|------------------------------|-----------------------------|--|--|
| Average forward current      | I <sub>F(AV)</sub> 5.0 Amps | Square wave                                    |  |
| Maximum surge current        | I <sub>FSM</sub> 250 Amps   | 8.3ms, half sine, T <sub>J</sub> = 175°C       |  |
| Max peak forward voltage     | V <sub>FM</sub> .52 Volts   | I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C* |  |
| Max peak forward voltage     | V <sub>FM</sub> .65 Volts   | I <sub>FM</sub> = 5.0A; T <sub>J</sub> = 25°C* |  |
| Max peak reverse current     | I <sub>RM</sub> 250 μA      | V <sub>RRM</sub> , T <sub>J</sub> = 25°C       |  |
| Typical junction capacitance | C <sub>J</sub> 355 pF       | V <sub>R</sub> = 5.0V, T <sub>J</sub> = 25°C   |  |

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

| Thermal and Mechanical Characteristics |                  |                                 |
|--|------------------|---------------------------------|
| Storage temperature range              | T <sub>STG</sub> | -55°C to 175°C                  |
| Operating junction temp range          | T <sub>J</sub>   | -55°C to 175°C                  |
| Maximum thermal resistance             | R <sub>θJL</sub> | 22°C/W Junction to lead         |
| Weight                                 |                  | .008 ounces (.22 grams) typical |



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05-15-07 Rev. 3

# HSM550, HSM560

Figure 1  
Typical Forward Characteristics

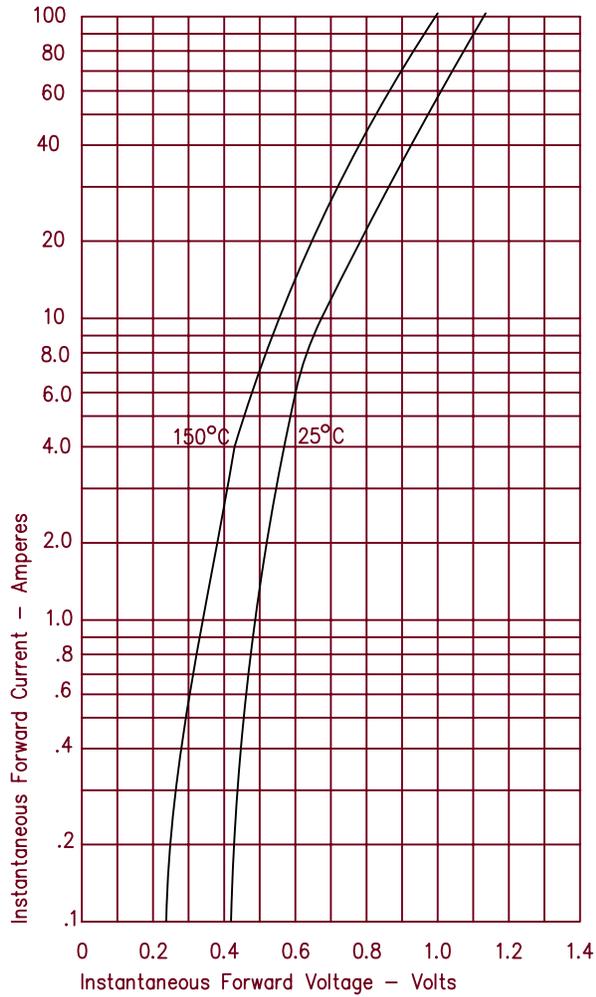


Figure 3  
Typical Junction Capacitance

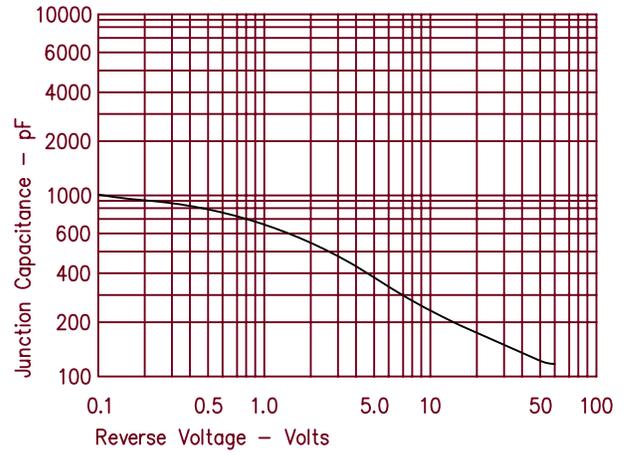


Figure 2  
Typical Reverse Characteristics

