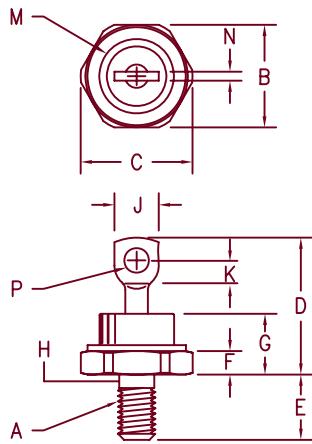


60 Amp Schottky Rectifier

SBR60150



Notes:

1. Full threads within 2 1/2 threads
2. Standard Polarity: Stud is Cathode
Reverse Polarity: Stud is Anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1/4-28
B	.669	.688	17.00	17.47	
C	---	.794	---	20.16	
D	.750	1.00	19.05	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.59	6.32	1
J	---	.375	---	9.52	
K	.156	---	3.97	---	
M	---	.510	---	12.95	Dia
N	---	.080	---	2.03	
P	.140	.175	3.56	4.44	Dia

DO-203AB (DO-5)

Microsemi Catalog Number

Working Peak Reverse Voltage

Peak Reverse Voltage

SBR60150*

150V

150V

*Add Suffix R For Reverse Polarity

- Schottky barrier rectifier
- Hermetic packaging
- Guard ring protected
- Reverse Energy Tested
- 175°C junction temperature
- $\sqrt{VR_{RM}} = 150$ Volts

Electrical Characteristics

Average forward current
Maximum surge current

I_{F(AV)} 60 Amps

T_C = 125°C, square wave, R_{θJC} = 1.0 °C/W
8.3ms, half sine, T_J = 175°C

Max repetitive peak reverse current

I_{FR(0V)} 2 Amp

f = 1 KHz, 25°C, 1 μsec square wave

Max peak forward voltage

V_{FM} .90 Volts

I_{FM} = 60A: 25°C *

Max peak forward voltage

V_{FM} .75 Volts

I_{FM} = 60A: 125°C *

Max peak reverse current

I_{RM} 3 mA

V_{RRM}, T_J = 125°C *

Max peak reverse current

I_{RM} 1 mA

V_{RRM}, T_J = 25°C

Typical junction capacitance

C_J 970 pF

V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range

T_{STG}

-65°C to 175°C

Operating junction temp range

T_J

-40°C to 175°C

Maximum thermal resistance

R_{θJC}

1.0°C/W Junction to case

Typical thermal resistance (greased)

R_{θCS}

0.5°C/W Case to sink

Mounting torque

25-30 inch pounds

Weight

.54 ounces (15.3 grams) typical

 LAWRENCE
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05-30-07 Rev. 3

SBR60150

Figure 1
Typical Forward Characteristics

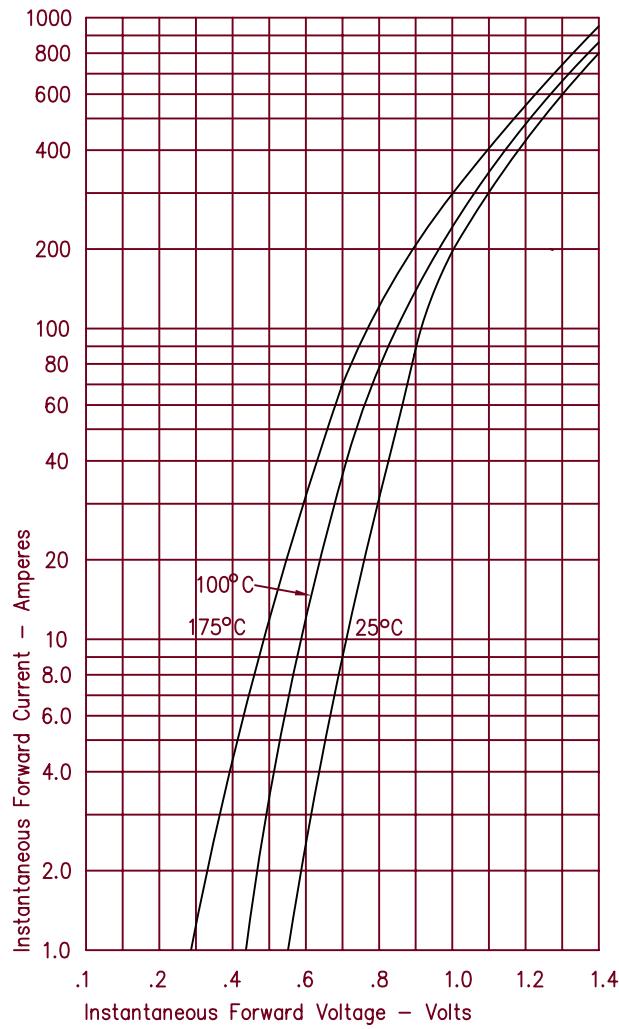


Figure 2
Typical Reverse Characteristics

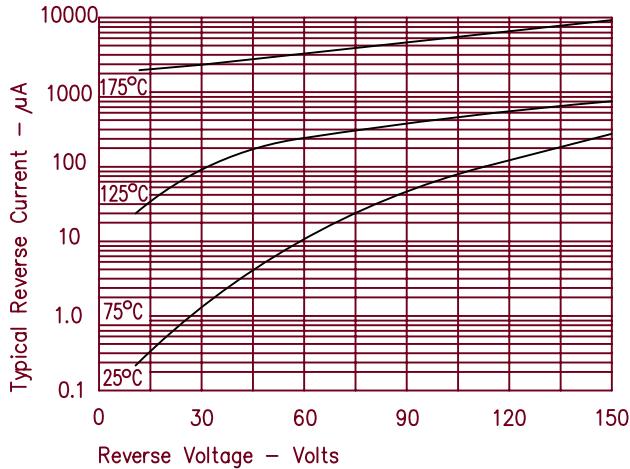


Figure 3
Typical Junction Capacitance

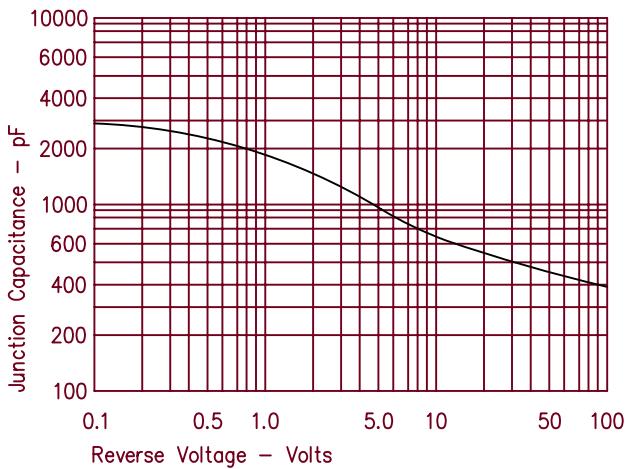


Figure 4
Forward Current Derating

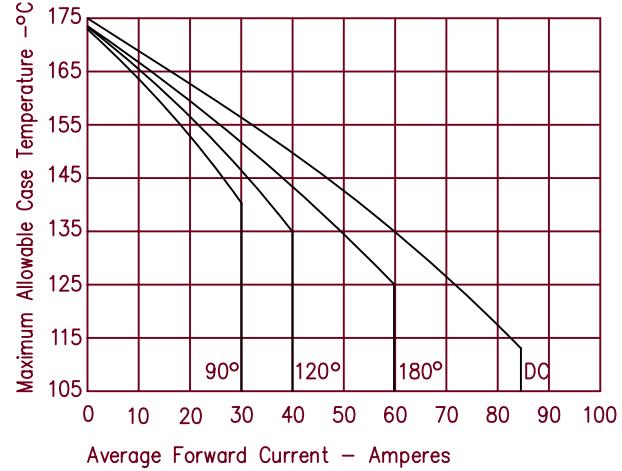


Figure 5
Maximum Forward Power Dissipation

