



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

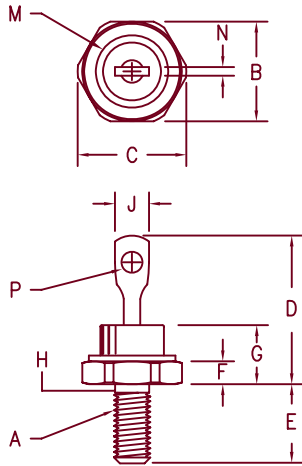
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30 Amp Schottky Rectifier SBR3060



Notes:

1. 10-32 UNF3A threads
2. Full threads within 2 1/2 threads
3. Standard Polarity:
Stud is Cathode. Reverse Polarity Stud is Anode

| Dim. | Inches | | Millimeter | | Notes |
|------|---------|---------|------------|---------|-------|
| | Minimum | Maximum | Minimum | Maximum | |
| A | --- | --- | --- | --- | 1 |
| B | .424 | .437 | 10.77 | 11.10 | |
| C | --- | .505 | --- | 12.82 | |
| D | .600 | .800 | 15.24 | 20.32 | |
| E | .422 | .453 | 10.72 | 11.50 | |
| F | .075 | .175 | 1.91 | 4.44 | 2 |
| G | --- | .405 | --- | 10.29 | |
| H | .163 | .189 | 4.15 | 4.80 | |
| J | --- | .250 | 2.54 | 3.56 | |
| M | --- | .350 | --- | 8.89 | |
| N | .020 | .065 | .510 | 1.65 | Dia. |
| P | .070 | .100 | 1.78 | 2.54 | |

D0203AA (D04)

| Microsemi Catalog Number | Working Peak Reverse Voltage | Repetitive Peak Reverse Voltage |
|-----------------------------|---------------------------------|------------------------------------|
| SBR3060* | 60V | 60V |

*Add Suffix R For Reverse Polarity

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- V_{RRM} 60V
- 30 Amperes
- Reverse Energy Tested

Electrical Characteristics

| | | |
|-------------------------------------|--------------------|------------------------------------------------------------------|
| Average forward current | $I_F(AV)$ 30 Amps | $T_C = 146^\circ C$ Square wave, $R_{\theta JC} = 1.5^\circ C/W$ |
| Maximum surge current | I_{FSM} 600 Amps | 8.3 ms, half sine $T_J = 175^\circ C$ |
| Max repetitive peak reverse current | $I_R(OV)$ 2 Amps | $f = 1$ KHz, $25^\circ C$, 1 μsec Square wave |
| Max peak forward voltage | V_{FM} .68 Volts | $I_{FM} = 30A$: $T_J = 25^\circ C^*$ |
| Max peak reverse current | I_{RM} 25 mA | V_{RRM} , $T_J = 125^\circ C^*$ |
| Max peak reverse current | I_{RM} 1.5 mA | V_{RRM} , $T_J = 25^\circ C$ |
| Typical junction capacitance | C_J 1500 pF | $V_R = 5.0V$, $T_J = 25^\circ C$ |

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

Thermal and Mechanical Characteristics

| | | |
|--------------------------------------|-----------------|----------------------------------|
| Storage temp range | T_{STG} | $-55^\circ C$ to $175^\circ C$ |
| Operating junction temp range | T_J | $-55^\circ C$ to $175^\circ C$ |
| Max thermal resistance | $R_{\theta JC}$ | $1.5^\circ C/W$ Junction to case |
| Typical thermal resistance (greased) | $R_{\theta CS}$ | $0.5^\circ C/W$ Case to sink |
| Mounting torque | | 12-15 inch pounds |
| Weight | | 0.2 ounces (6.0 grams) typical |



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05-25-07 Rev. 2

SBR3060

Figure 1
Typical Forward Characteristics

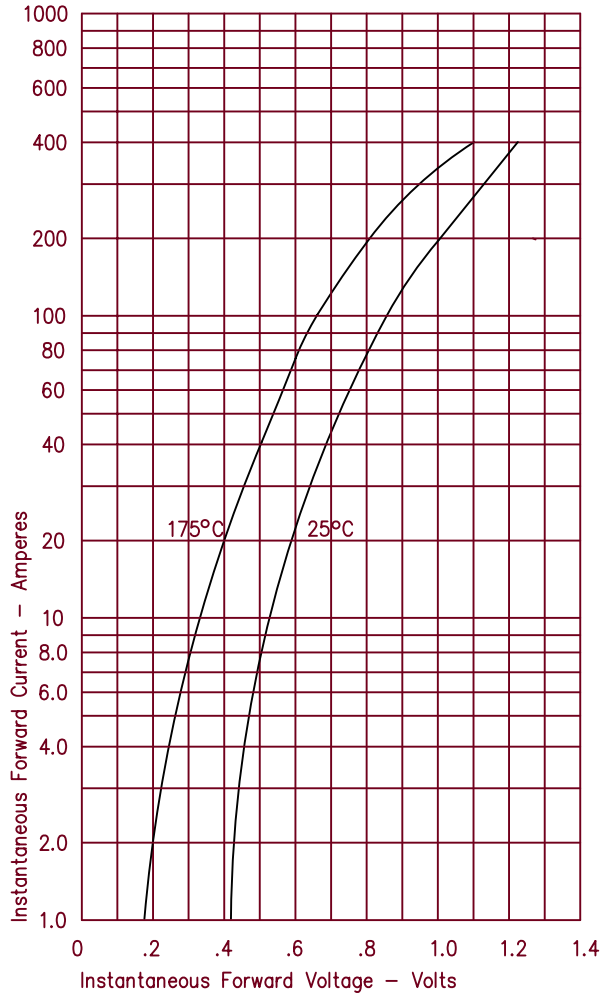


Figure 3
Typical Junction Capacitance

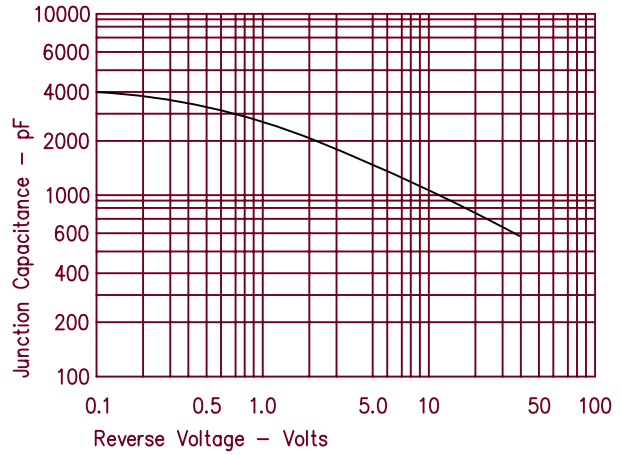


Figure 4
Forward Current Derating

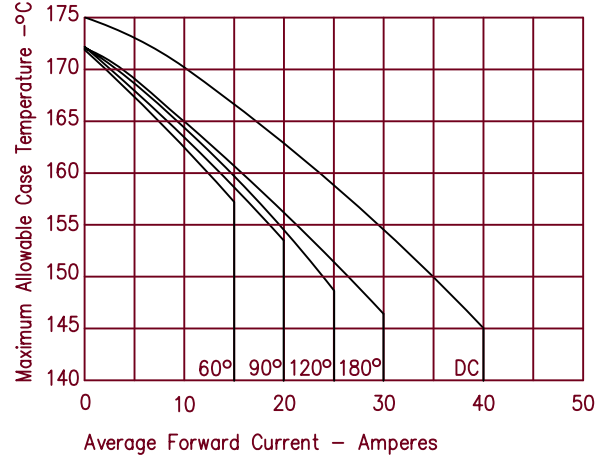


Figure 2
Typical Reverse Characteristics

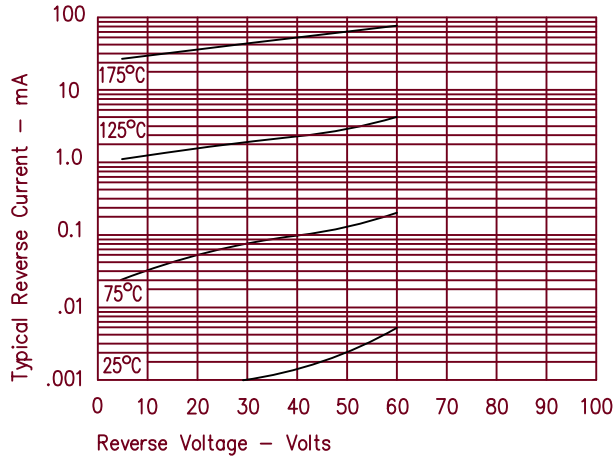


Figure 5
Maximum Forward Power Dissipation

