

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!



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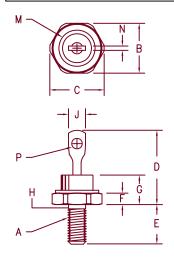
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







30 Amp Schottky Rectifier SBR 30 35 — SBR 30 50



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

D0203AA (D04)

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SBR3035*	21FQ035 30FQ035	35V	35V
SBR3040*	21FQ040 30FQ040	40V	40V
SBR3045*	21FQ045 30FQ045	45V	45V
SBR3050*		50V	50V
	*Add Suffix R	For Reverse Polarit	.y

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- VRRM 35 to 50V
- 30 Amperes
- Reverse Energy Tested

Electrical Characteristics

IF(AV) 30 Amps Average forward current $^{T}C = 145^{\circ}C$ Square wave, $^{R}\Theta JC = 1.5^{\circ}C/W$ FSM 600 Amps Maximum surge current 8.3 ms, half sine TJ = 175°C IR(OV) 2 Amps Max repetitive peak reverse current f = 1 KHz, 25°C, 1 μ sec Square wave | FM = 30A: TJ = 175°C* | FM = 30A: TJ = 25°C* | VRRM, TJ = 125°C* | VRRM, TJ = 25°C | VR = 5.0V, TJ = 25°C VFM .49 Volts Max peak forward voltage Max peak forward voltage УFМ .63 Volts IRM Max peak reverse current 25 mA IRM 1.5 mA Max peak reverse current CJ 1800 pF Typical junction capacitance

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

Thermal and Mechanical Characteristics

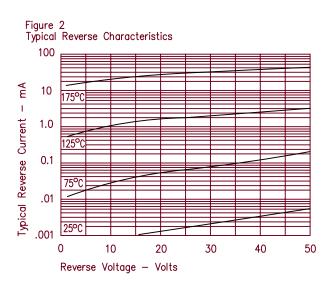
Storage temp range TSTG -55°C to 175°C
Operating junction temp range TJ -55°C to 175°C
Max thermal resistance R OJC
Typical thermal resistance (greased) R OCS
Mounting torque 12—15 inch pounds
Weight 0.2 ounces (6.0 grams) typical



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SBR3035 - SBR3050

Figure 1 Typical Forward Characteristics 1000 800 600 400 200 100 80 60 40 Instantaneous Forward Current - Amperes 20 10 8.0 6.0 4.0



2.0

.2

.4

.6

Instantaneous Forward Voltage - Volts

.8

1.0

1.2

1.4

