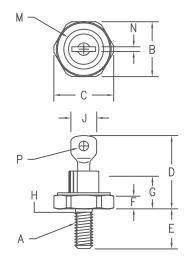
# Silicon Power Rectifier S/R204 Series



#### Notes:

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

Dim. Inches			Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	 .424		 10.77	 11.10	1
B C	.424	.437 .505		12.82	
D	.600	.800	15.24	20.32	
E	.422	.453	10.72	11.50	
F G	.075	.175 .405	1.91	4.44 10.29	
H	.163	.189	4.15	4.80 7.87	2
M N	.020	.350 .065	 .510	8.89 1.65	Dia
Ρ	.070	.100	1.78	2.54	Dia

### D0203AA (D04)

Microsemi	JEDEC	Peak Reverse					
Catalog Number	Numbers	Voltage					
Standard	1N1199, 1N1199A, 1N1199B	50V					
*S20410	1N1200, 1N1200A, 1N1200B	100V					
	1N1201, 1N1201A, 1N1201B	150V					
*S20420	1N1124,A, 1N1202, 1N1202A, 1N1202B	200V					
	1N1125,A, 1N1203, 1N1203A, 1N1203B	300V					
*S20440	1N1126,A, 1N1204, 1N1204A, 1N1204B	400V					
	1N1127,A, 1N1205, 1N1205A, 1N1205B	500V					
*S20460	1N1128,A, 1N1206, 1N1206A, 1N1206B	600V					
*S20480		800V					
*S204100		1000V					
*S204120_		1200V					
*Change S to R in part number for Reverse Polarity							
For JEDEC numbers add R to part number for Reverse Polarity NOTE: The Reverse Polarity For the A & B versions							
may be listed as RA or RB instead of AR or BR							

- Glass Passivated Die
- Low Forward Voltage
- 250A Surge Rating
- Glass to metal seal construction
- VRRM to 1200V
- Low cost Non-RoHS package

#### Electrical Characteristics

Average forward current | F(AV) 12 Amps | Maximum surge current | FSM 250 Amps | Max I 2 t for fusing | I 2 t 260 A 2 s | V FM 1.2 Volts | Max peak reverse current | RM 10 µA | RM 1.0 mA | Max Recommended Operating Frequency | Max Peak reverse current | Max Recommended Operating Frequency | Max Re

 $^{T}C$  = 170°C, half sine wave,  $^{R}\Theta JC$  = 2.5°C/W 8.3ms, half sine,  $^{T}J$  = 200°C

|FM = 30A: TJ = 25°C \* |VRRM, TJ = 25°C

 $V_{RRM,TJ} = 150^{\circ}C^{*}$ 

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

#### Thermal and Mechanical Characteristics

Storage temperature range Operating junction temp range Maximum thermal resistance Mounting torque Weight T<sub>STG</sub> T<sub>J</sub> R<sub>O</sub>JC

-65°C to 200°C -65°C to 200°C 2.5°C/W Junction to Case 25-30 inch pounds

.16 ounces (5.0 grams) typical



# S/R204

Figure 1 Typical Forward Characteristics

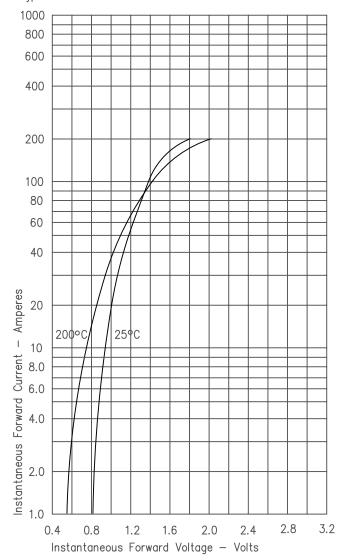


Figure 2 Typical Reverse Characteristics

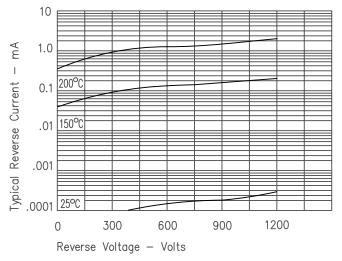


Figure 3 Forward Current Derating

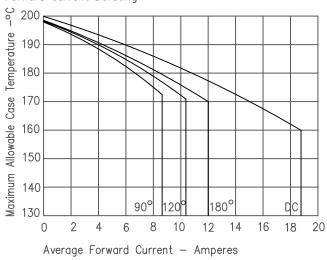


Figure 4
Maximum Forward Power Dissipation

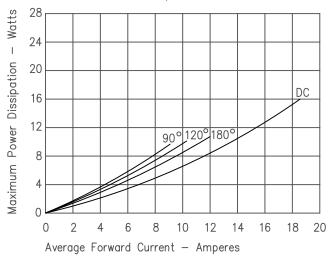
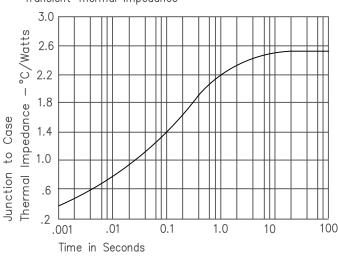


Figure 5 Transient Thermal Impedance



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#### Microchip:

1N1205B 1N1205BR 1N1203R 1N1199 1N1203B S204120 1N1205R 1N1205 1N1199BR S20460 R20420
1N1206R R204100 1N1201B S20410 S20480 1N1204 1N1205A 1N1204BR R20440 R20410 1N1204R
1N1206BR 1N1203 1N1200BR 1N1200 S204100 1N1205AR 1N1201BR 1N1206 1N1199R 1N1201R 1N1200B
1N1126AR 1N1125A 1N1127A 1N1124A 1N1200A 1N1206B 1N1199AR 1N1126 1N1128 1N1124RA
1N1199A 1N1202BR 1N1126A 1N1126AA 1N1199B 1N1201AR 1N1125AR 1N1201 1N1128RA 1N1127AR
1N1127 1N1128AR 1N1125 1N1204B 1N1202B 1N1200R