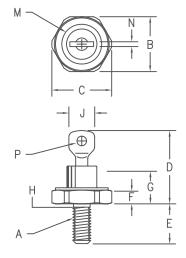
Silicon Power Rectifier S/R204 Series



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
Α					1
В	.424	.437	10.77	11.10	
С		.505		12.82	
D	.600	.800	15.24	20.32	
Ε	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G		.405		10.29	
Н	.163	.189	4.15	4.80	2
J		.310		7.87	
М		.350		8.89	Dia
Ν	.020	.065	.510	1.65	
Р	.070	.100	1.78	2.54	Dia

D0203AA (D04)

Microsemi Catalog Number	JEDEC Numbers	Peak Reverse 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

Maximum surge current

Max I 2 t for fusing

Max peak forward voltage

Max peak reverse current

Max peak reverse current

Max peak reverse current

Max Recommended Operating Frequency

IF(AV) 12 Amps

IF(AV) 12 A

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

IFM = 30A: TJ = 25°C *

 $V_{RRM,TJ} = 25$ °C $V_{RRM,TJ} = 150$ °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 $\begin{array}{c} \mathsf{T}_{\mathsf{STG}} \\ \mathsf{T}_{\mathsf{J}} \\ \mathsf{R}_{\mathsf{\theta}\mathsf{JC}} \end{array}$

-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

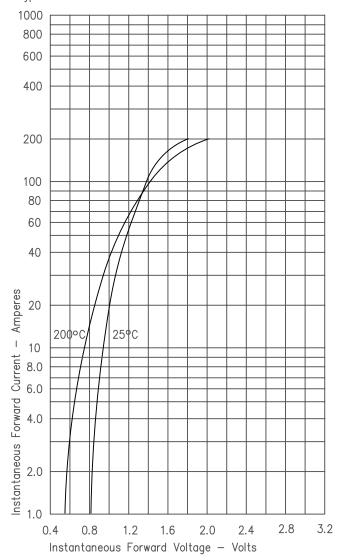


Figure 2 Typical Reverse Characteristics

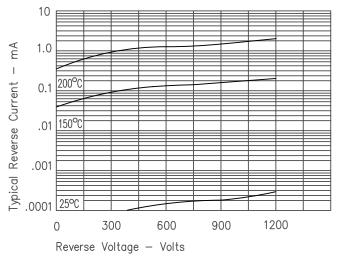


Figure 3 Forward Current Derating

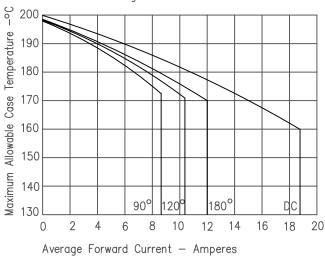


Figure 4
Maximum Forward Power Dissipation

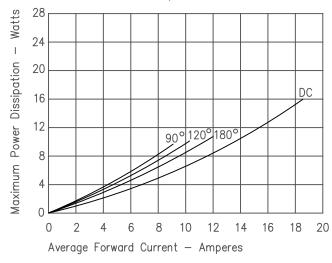
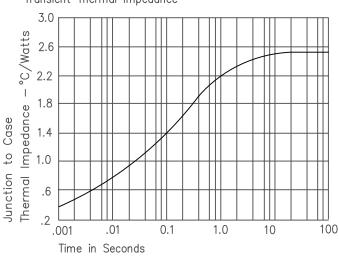


Figure 5 Transient Thermal Impedance



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip:

1N1205B 1N1205BR 1N1203R 1N1199 JANTX1N1206A 1N1203B 1N1205C 1N1205R 1N1205 1N1199BR
1N1204C 1N1206R JAN1N1204AR JAN1N1204A 1N1201B JANTX1N1204A 1N1206AR JAN1N1202A 1N1204
1N1205A JANTX1N1202AR 1N1204BR JANTXV1N1204A 1N1204R JANTXV1N1202AR 1N1206BR 1N1203

JANTX1N1202A 1N1200BR 1N1200 1N1201A 1N1201C JAN1N1206AR 1N1205AR 1N1201BR 1N1206
1N1199R 1N1201R 1N1206A 1N1202A 1N1204AR 1N1202AR 1N1204A 1N1199C 1N1206C 1N1203C
1N1202C 1N1200C 1N1202 1N1203AR 1N1203BR 1N1202R 1N1203A 1N1200B 1N1200A 1N1206B
1N1199AR 1N1199A 1N1202BR 1N1201AR 1N1201 1N1204B 1N1202B 1N1200R JANTXV1N1206AR
JAN1N1206A JANTX1N1206AR JANTXV1N1206A JANTXV1N1204AR JANTXV1N1204AR JANTXV1N1202A
1N1200AR JAN1N1202AR