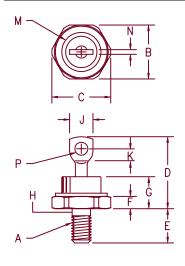
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Silicon Power Rectifier S/R304 Series



Notes

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

Dim	n. Inches				
	Minimum	Maximum	Minimum	Maximum	n Notes
Α				^	/4-28
В	.667	.687	16.95	17.44	.,
С		.793		20.14	
D		1.00		25.40	
Ε	.422	.453	10.72	11.50	
F	.115	.200	2.92	5.08	
G		.450		11.43	
Н	.220	.249	5.59	6.32	1
J	.250	.375	6.35	9.52	
K	.156		3.97		
М		.667		16.94	Dia
N		.080		2.03	
Р	.140	.175	3.56	4.44	Dia

D0203AB (D05)

Microsemi Catalog Number Standard	JEDEC Numbers	Peak Reverse Voltage
* \$30420 * \$30440 * \$30460 * \$30480 * \$304100 * \$304120	SEE PAGE 2 FOR FULL LIST OF JEDEC NUMBERS	200V 400V 600V 800V 1000V 1200V
* Change S to R	in Part Number for Re	verse Polarity

- Glass Passivated Die
- 800A surge rating
- Glass to metal seal construction
- VRRM to 1200V

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 Recommended Operating Frequency

IF(AV) 40 Amps

IFSM 800 Amps

I 2 t 2600 A 2 s

V FM 1.19 Volts

I RM 10 µA

I RM 2.0 mA

 ^{T}C = 146°C, half sine wave, $^{R}\theta JC$ = 1.25°C/W 8.3ms, half sine, ^{T}J = 200°C

IFM = 90A: TJ = 25°C *
VRRM, TJ = 25°C
VRRM, TJ = 150°C

*Pulse test: Pulse width 300 jusec. Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range

Operating junction temp range

TJ

Assimum thermal resistance

Typical thermal resistance

Mounting torque

Weight

TSTG

TJ

-65°C to 200°C

TJ

-65°C to 200°C

1.25°C/W Junction to Case

1.1°C/W Junction to Case

25 - 30 inch pounds

5 ounces (14 grams) typical



S/R304

			JEDEC Numbers			Peak Reverse Voltage
1N1191,A	1N1301	1N1434		1N2154	1N2272	50V
1N1192,A 1N1193,A	1N1302	1N1435	1N2021	1N2155	1N2273	100V 150V
1N1194,A	1N1304	1N1436	1142021	1N2156	1N2274	200V
4114405.4	414700		1N2022	1110157	1110075	250V 300V
1N1195,A	1N1306		1N2023 1N2024	1N2157	1N2275	350V
1N1196,A		1N1437	1N2025	1N2158	1N2276	400V
1N1197,A 1N1198,A		1N1438		1N2159 1N2160	1N2277 1N2278	500V 600V
1111130,A		1111450		1112100	1N2276 1N2279	800V
					1N2280 1N2281	1000V 1200V
						Peak Reverse Voltage
	1N248,A-C 1N249,A-C		1N2793 1N2794 1N2795	1N3208 1N3209		50V 100V 150V
	1N250,A-C	1N2786	1N2796 1N2797	1N3210	1N4525	200V 250V
1N2282			1N2798 1N2799	1N3211		300V 350V
1N2283		1N2787	1N2800	1N3212	1N4526	400V
1N2284 1N2285				1N3213 1N3214	1N4527	500V 600V
1N2286					1N4528	800V
1N2287 1N2288				1N5332	1N4529 1N4530	1000V 1200V
					230	12001

Figure 1 Typical Forward Characteristics

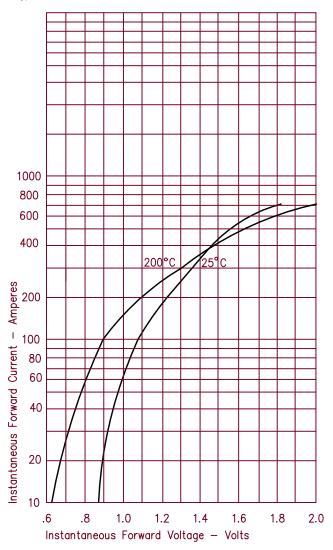


Figure 2 Typical Reverse Characteristics

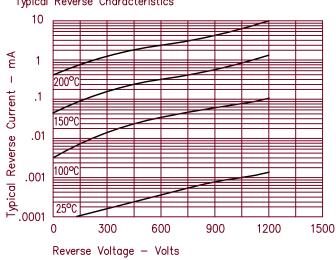
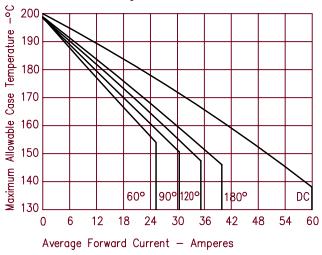


Figure 3 Forward Current Derating



Maximum Forward Power Dissipation

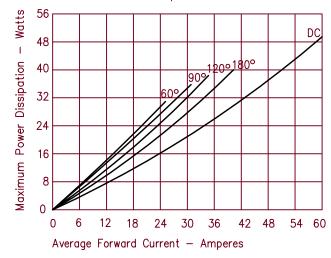
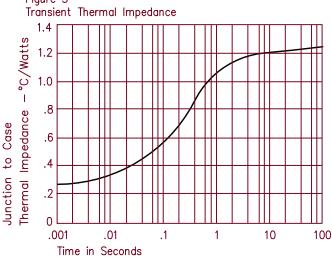


Figure 5



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