

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 1N1348B
Manufacturer: Microchip Technology
Package: DO-203AA, DO-4, Stud
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/microchip-technology/1n1348b.html>

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Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Silicon Power Rectifier S/R20 Series



Notes:

- 10-32 UNF3A
- Full threads within 2 1/2 threads
- 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	
G	---	.405	---	10.29	
H	.163	.189	4.15	4.80	2
J	---	.310	---	7.87	
M	---	.350	---	8.89	Dia
N	.020	.065	.510	1.65	
P	.070	.100	1.78	2.54	Dia

DO203AA (D04)

Microsemi Catalog Number	JEDEC Numbers		Peak Reverse Voltage	
1N1064	1N1341, A,B,C	1N1581	1N1612,A	1N2228,A
1N1065	1N1342, A,B,C	1N1582	1N1613,A	
1N1066	1N1343, A,B,C			
*S2020	1N1067	1N1344, A,B,C	1N1583	1N1614,A
	1N1068	1N1345, A,B,C	1N1584	1N2230,A
*S2040	1N1069	1N1346, A,B,C	1N1585	1N2232,A
		1N1347, A,B,C	1N1586	1N2493
*S2060		1N1348, A,B,C	1N1587	1N2494
*S2080			1N1616,A	1N2234,A
*S20100			1N4458	1N2495
*S20120			1N4459	1N2496
				1N2497
				1N2238,A
				1N2240,A
				1N2242,A
				1N2244,A

*Change S to R in part number for Reverse Polarity
For 1N types add an R suffix for Reverse Polarity

- Glass Passivated Die
- Low Forward Voltage
- 200A Surge Rating
- Glass to metal seal construction
- V_{RRM} to 1200V
- Low cost Non-RoHS package

Electrical Characteristics

Average forward current	$I_F(AV)$ 16 Amps	$T_C = 153^\circ C$, half sine wave, $R_{\theta JC} = 2.5^\circ C/W$
Maximum surge current	I_{FSM} 200 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 165 $A^2 s$	
Max peak forward voltage	V_{FM} 1.3 Volts	$I_{FM} = 30A: T_J = 25^\circ C$
Max peak reverse current	I_{RM} 10 μA	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	I_{RM} 1.0 mA	$V_{RRM}, T_J = 150^\circ C$
Max Recommended Operating Frequency	10kHz	

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	$-65^\circ C$ to $200^\circ C$
Operating junction temp range	T_J	$-65^\circ C$ to $200^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$2.5^\circ C/W$ Junction to Case
Mounting torque		25-30 inch pounds
Weight		.16 ounces (5.0 grams) typical

S/R20

Figure 1
Typical Forward Characteristics

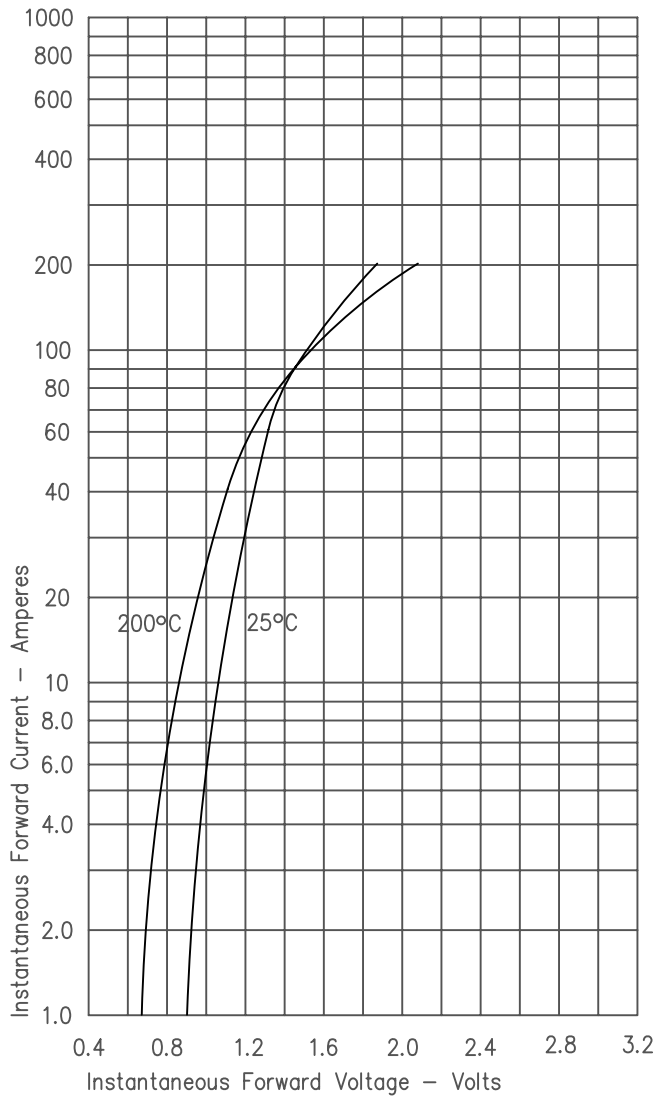


Figure 3
Forward Current Derating

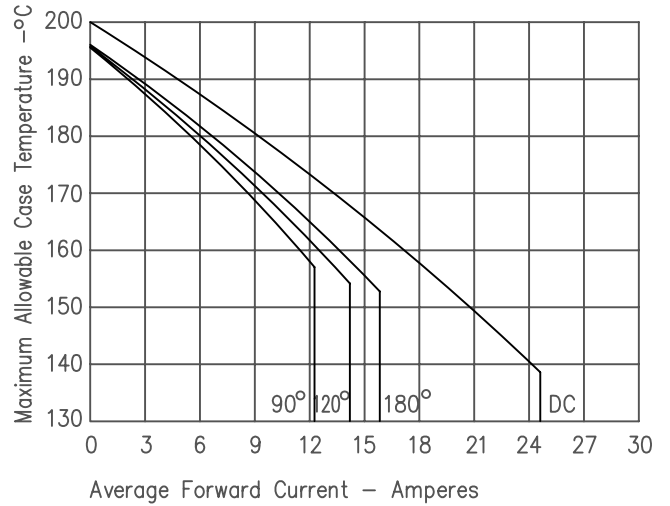


Figure 4
Maximum Forward Power Dissipation

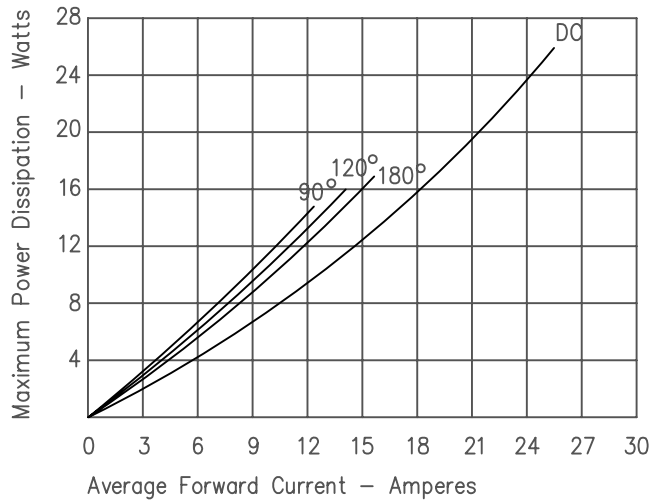


Figure 2
Typical Reverse Characteristics

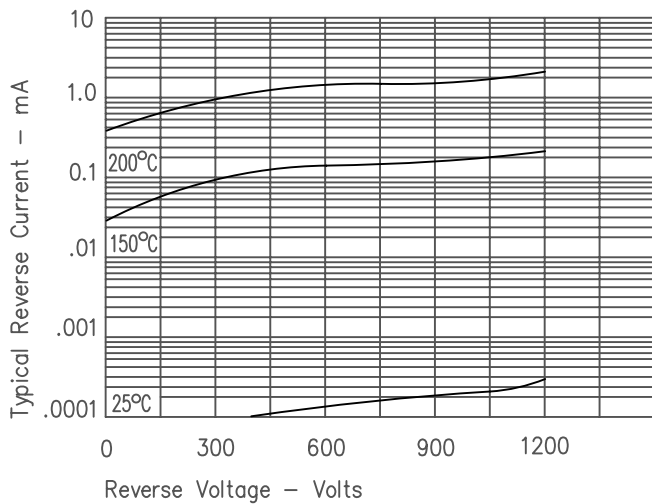


Figure 5
Transient Thermal Impedance

