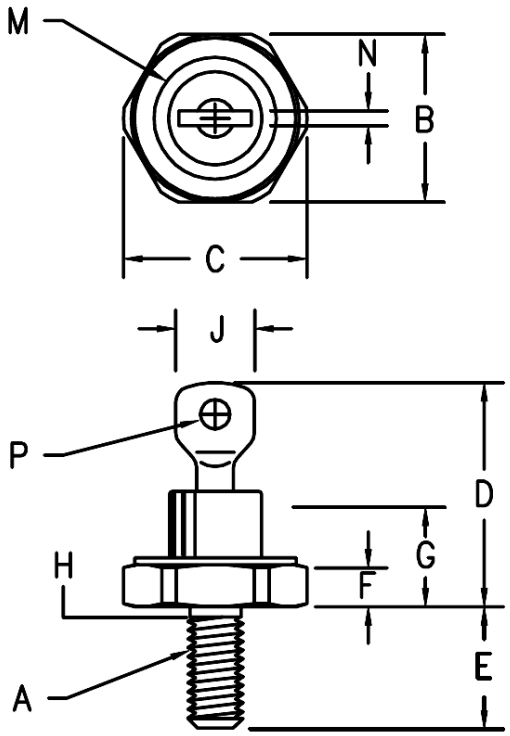
1N1199RB

Technical Specifications



D0-4

Dim.	Inches		Milimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	---	---	---	---	1
B	0.424	0.437	10.77	11.10	
C	---	0.505	---	12.82	
D	0.600	0.800	15.24	20.32	
E	0.422	0.453	10.72	11.50	
F	0.075	0.175	1.91	4.44	
G	---	0.405	---	10.29	
H	0.163	0.189	4.15	4.80	2
J	---	0.310	---	7.87	
M	---	0.350	---	8.89	Dia
N	0.020	0.065	0.51	1.65	
P	0.070	0.100	1.78	2.54	Dia

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

- Glass Passivated Die
- Low Forward Voltage
- 250A Surge Rating
- Glass to metal seal construction
- 1199RB V_{RRM} = 50V. V_{RRM} up to 1200V in this rectifier series.

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 12 Amps	T_C = 170°C, half sine wave, $R_{\theta JC}$ = 2.5°C/W
Maximum surge current	I_{FSM} 250 Amps	8.3ms, half sine, T_J = 200°C
Max I^2t for fusing	I^2t 260 A^2s	
Max peak forward voltage	V_{FM} 1.2 Volts	I_{FM} = 30A; T_J = 25°C *
Max peak reverse current	I_{RM} 10 µA	V_{RRM}, T_J = 25°C
Max peak reverse current	I_{RM} 1.0 mA	V_{RRM}, T_J = 150°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°C to 200°C
Operating junction temp range	T_J	−65°C to 200°C
Maximum thermal resistance	$R_{\theta JC}$	2.5°C/W Junction to Case
Mounting torque		25−30 inch pounds
Weight		.16 ounces (5.0 grams) typical

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Figure 1
Typical Forward Characteristics

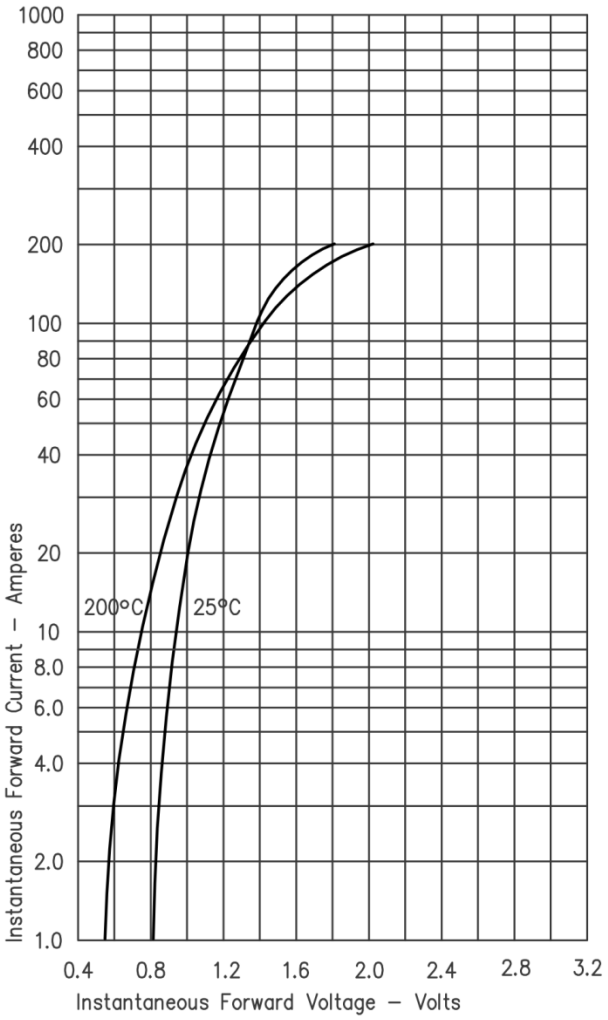


Figure 2
Typical Reverse Characteristics

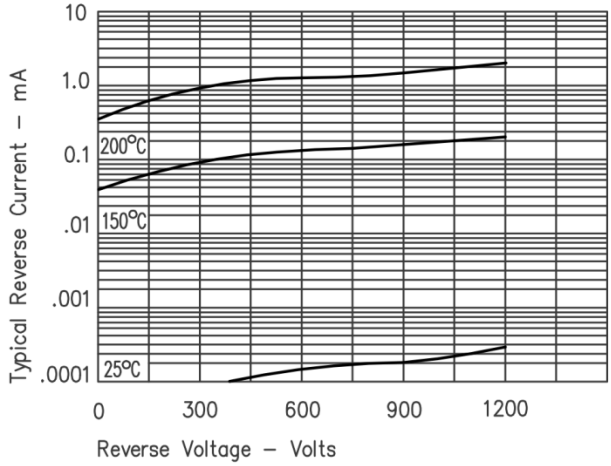


Figure 3
Forward Current Derating

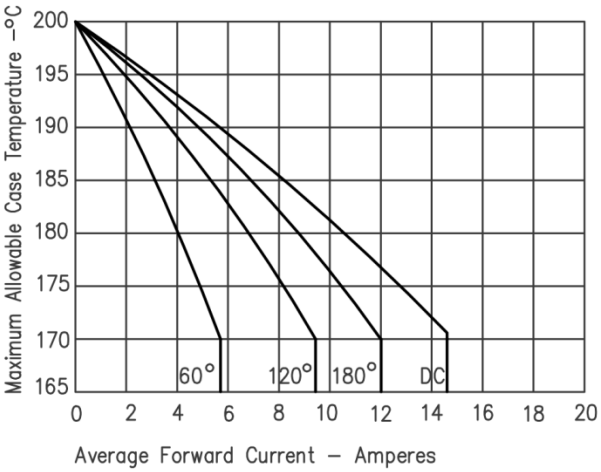


Figure 4
Maximum Forward Power Dissipation

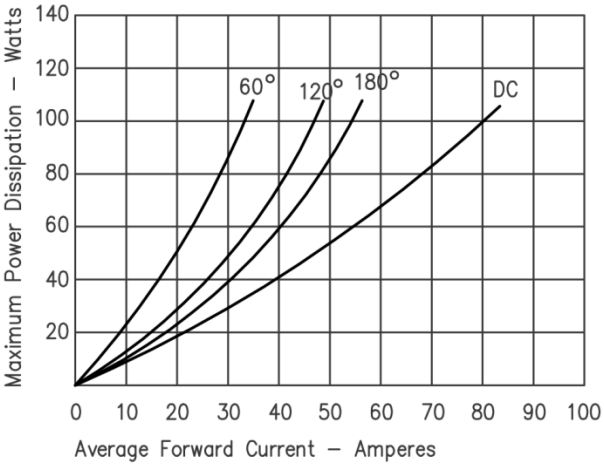
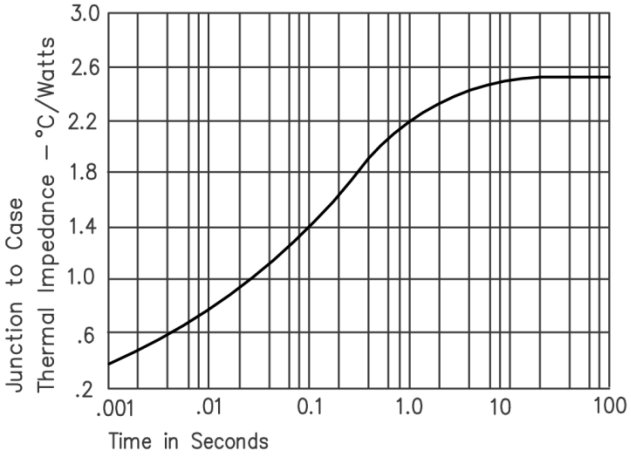


Figure 5
Transient Thermal Impedance



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