

D0-4

Dim.	Inches		Milimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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:

- 10-32 UNF3A
- Full threads within 2-1/2 threads
- 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	$T_C = 170^\circ C$, half sine wave, $R_{\theta JC} = 2.5^\circ C/W$
Maximum surge current	I_{FSM} 250 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 260 $A^2 s$	
Max peak forward voltage	V_{FM} 1.2 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



Figure 1
Typical Forward Characteristics

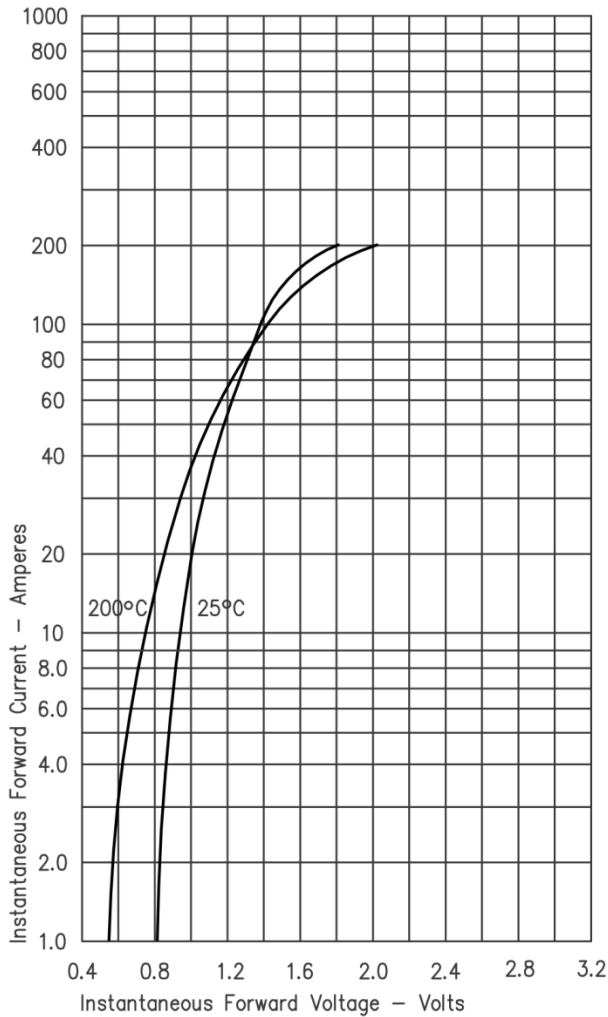


Figure 3
Forward Current Derating

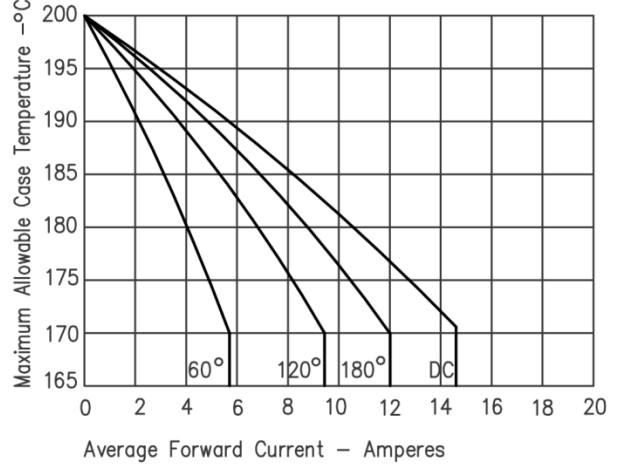


Figure 4
Maximum Forward Power Dissipation

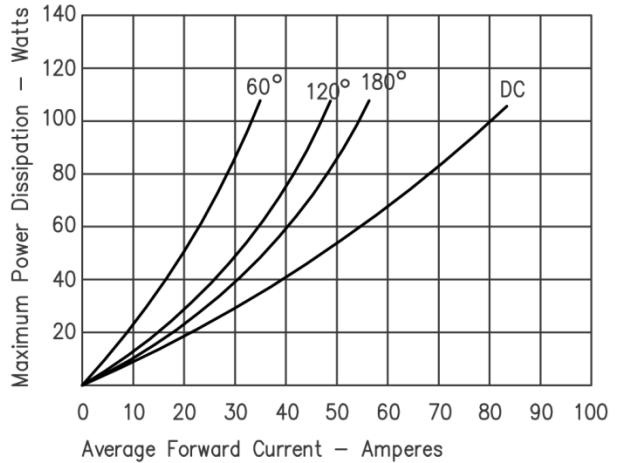


Figure 2
Typical Reverse Characteristics

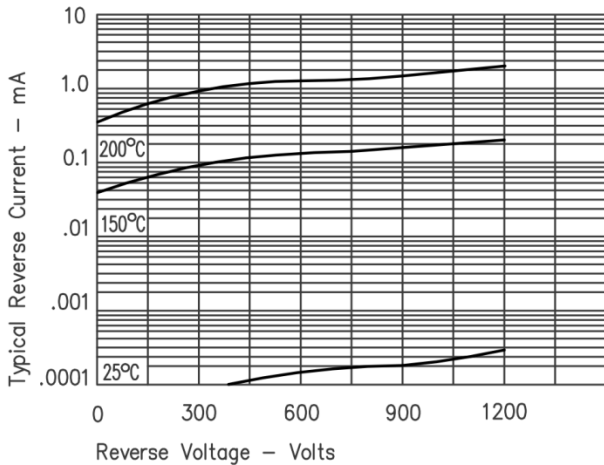


Figure 5
Transient Thermal Impedance

