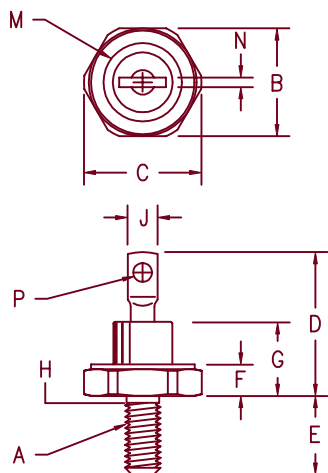


Military Silicon Power Rectifier

1N1124A–1N1128A, 1N3649, 1N3650



Notes:

1. 10–32 UNF3A
2. Full threads within 2 1/2 threads
3. 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	---	12.83	
D	---	.800	---	20.32	
E	.422	.453	10.72	11.51	
F	.075	.175	1.91	4.44	
G	---	.405	---	10.29	
H	.163	.189	4.15	4.80	2
J	.100	.140	2.54	3.56	
M	---	.350	---	8.89	Dia
N	.020	.065	.510	1.65	
P	.070	.100	1.78	2.54	Dia

D0203AA (D04)

Standard	Microsemi Catalog Number	Reverse	Peak Reverse Voltage
1N1124A	1N1124RA		200V
1N1126A	1N1126RA		400V
1N1128A	1N1128RA		600V
1N3649	1N3649R		800V
1N3650	1N3650R		1000V

- Available in JAN
- MIL-PRF-19500/260
- Glass passivated die
- Glass to metal seal construction
- 25 Amps surge rating
- V_{RRM} to 1000 volts

Electrical Characteristics

Average forward current	$I_F(AV)$ 3.3 Amps	$T_C = 150^\circ C$, half sine wave, $R_{\theta JC} = 2.0^\circ C/W$
Maximum surge current	I_{FSM} 25 Amps	8.3ms, half sine, $T_C = 150^\circ C$
Max peak forward voltage	V_{FM} 2.2 Volts	$I_{FM} = 10A$; $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 5 μA	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	I_{RM} 200 μA	$V_{RRM}, T_J = 150^\circ C$
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 case temp range	T_C	$-65^\circ C$ to $150^\circ C$
Maximum thermal resistance	$R_{\theta JC}$	$2.0^\circ C/W$ Junction to Case
Mounting torque		15 inch pounds maximum
Weight		.16 ounces (5.0 grams) typical

1–12–04 Rev. 1

MILITARY 1N1124A-1N1128A, 1N3649, 1N3650

Figure 1
Typical Forward Characteristics

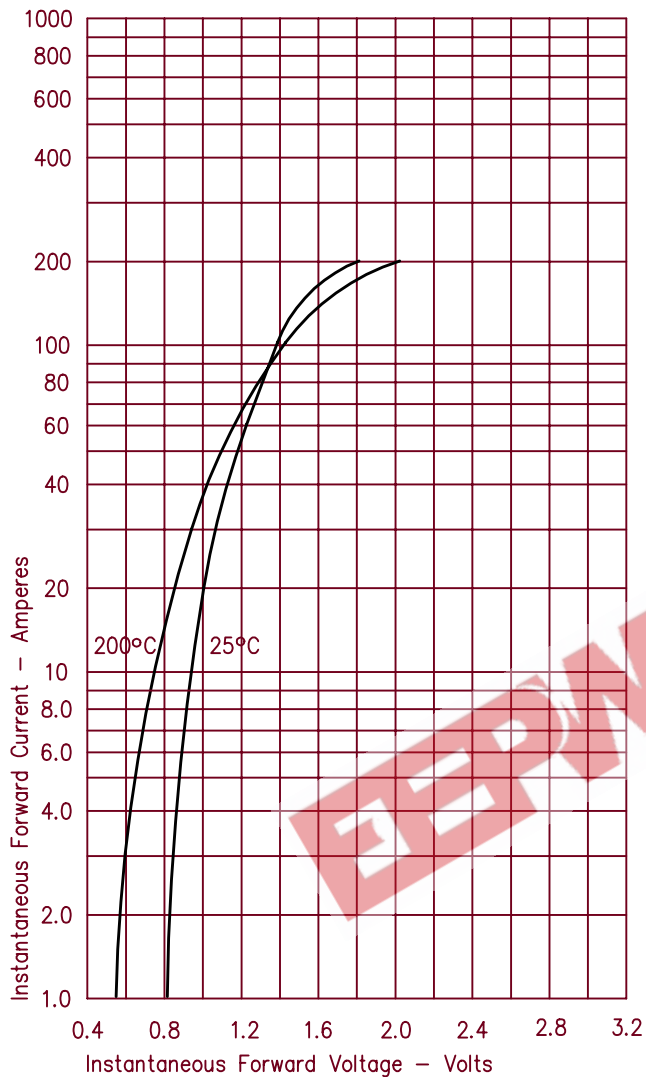


Figure 2
Typical Reverse Characteristics

