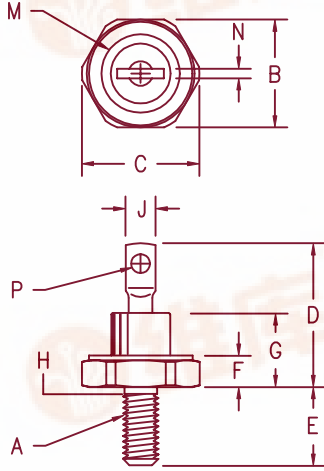


Military Silicon Power Rectifier

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)

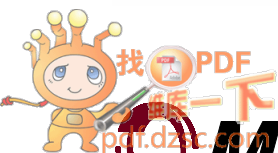
Standard	Microsemi Catalog Number	Reverse	Peak Reverse Voltage
1N1124A	1N1124RA	1N1124RA	200V
1N1126A	1N1126RA	1N1126RA	400V
1N1128A	1N1128RA	1N1128RA	600V
1N3649	1N3649R	1N3649R	800V
1N3650	1N3650R	1N3650R	1000V

- 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°C to 200°C
Operating case temp range	T_C	-65°C to 150°C
Maximum thermal resistance	$R_{\theta JC}$	2.0°C/W Junction to Case
Mounting torque		15 inch pounds maximum
Weight		.16 ounces (5.0 grams) typical



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

Figure 1
Typical Forward Characteristics

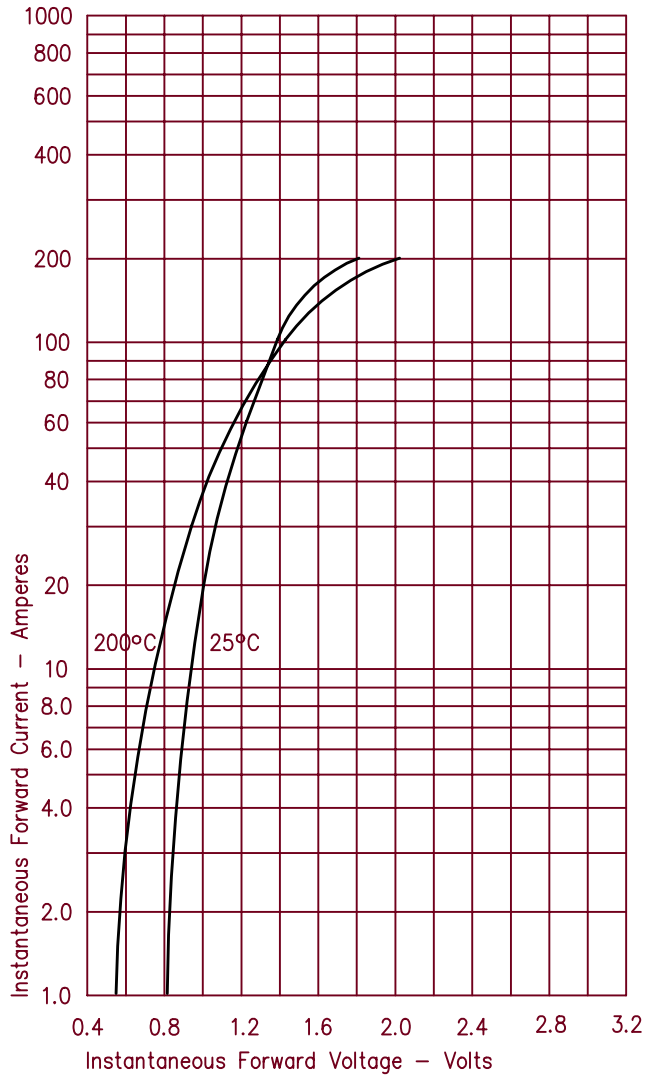


Figure 2
Typical Reverse Characteristics

