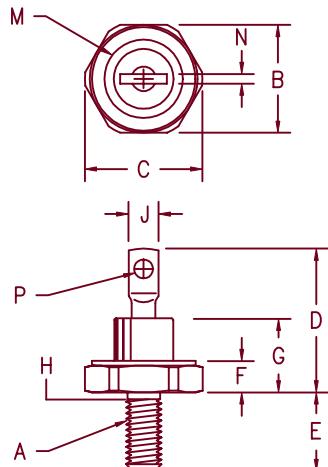


# Military Silicon Power Rectifier

## 1N1124A-1N1128A, 1N3649, 1N3650



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)

Microsemi Catalog Number	Reverse	Peak Reverse Voltage
Standard		
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
Maximum surge current	$I_{FSM}$ 25 Amps
Max peak forward voltage	$V_{FM}$ 2.2 Volts
Max peak reverse current	$I_{RM}$ 5 $\mu$ A
Max peak reverse current	$I_{RM}$ 200 $\mu$ A
Max Recommended Operating Frequency	10kHz

$T_C = 150^\circ\text{C}$ , half sine wave,  $R_{\theta JC} = 2.0^\circ\text{C}/\text{W}$   
 $8.3\text{ms}$ , half sine,  $T_C = 150^\circ\text{C}$   
 $|I_{FM}| = 10\text{A}$ :  $T_J = 25^\circ\text{C}$ \*  
 $V_{RRM,TJ} = 25^\circ\text{C}$   
 $V_{RRM,TJ} = 150^\circ\text{C}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ . 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

1-12-04 Rev. 1



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MILITARY  
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Figure 1  
Typical Forward Characteristics

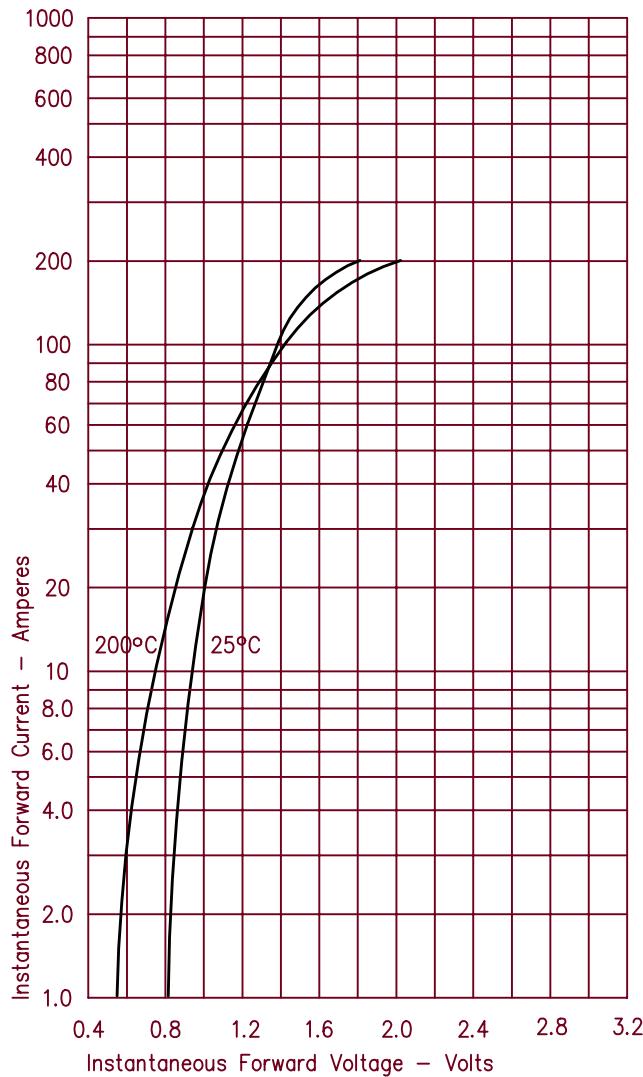


Figure 2  
Typical Reverse Characteristics

