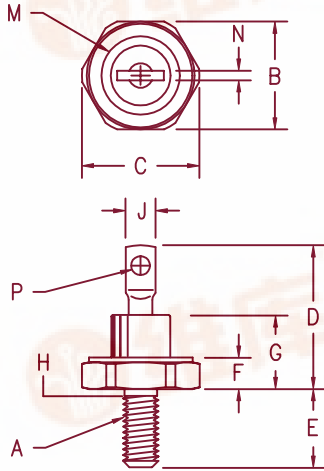


Military Silicon Power Rectifier

1N1202A-1N1206A, 1N3671A-1N3673A



- 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)

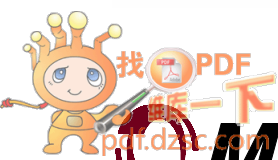
Microsemi Catalog Number	Standard Reverse	Peak Reverse Voltage
1N1202A	1N1202AR	200V
1N1204A	1N1204AR	400V
1N1206A	1N1206AR	600V
1N3671A	1N3671AR	800V
1N3673A	1N3673AR	1000V

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

Electrical Characteristics		
Average forward current	IF(AV) 12 Amps	TC = 150°C, half sine wave, $R_{\theta JC} = 2.0^{\circ}\text{C/W}$ 8.3ms, half sine, TC = 200°C
Maximum surge current	IFSM 240 Amps	
Max I ² t for fusing	I ² t 240 A ² s	IFM = 38A: TJ = 25°C* IFM = 240A: TJ = 25°C
Max peak forward voltage	VFM 1.35 Volts	
Max peak reverse current	VFM 2.30 Volts	VRRM, TJ = 25°C
Max peak reverse current	IRM 5 μ A	VRRM, TJ = 150°C
Max peak reverse current	IRM 1.0 mA	
Max Recommended Operating Frequency	10kHz	

*Pulse test: Pulse width 300 μ sec. Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temperature range	TSTG	-65°C to 200°C
Operating case temp range	TC	-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

1N1202A-1N1206A, 1N3671A-1N3673A

Figure 1
Typical Forward Characteristics

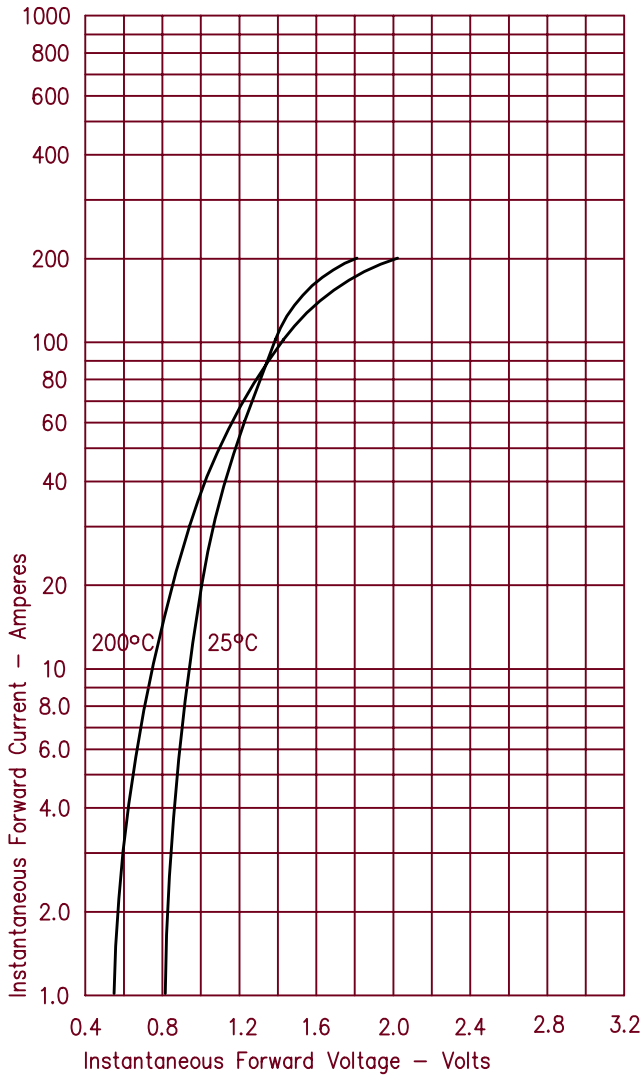


Figure 3
Forward Current Derating

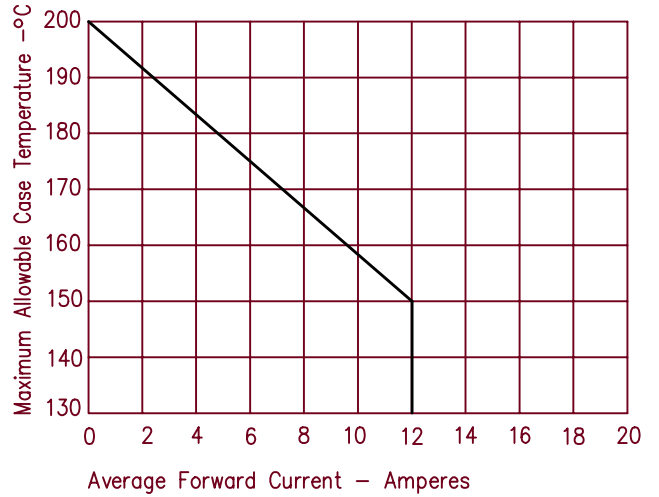


Figure 5
Transient Thermal Impedance

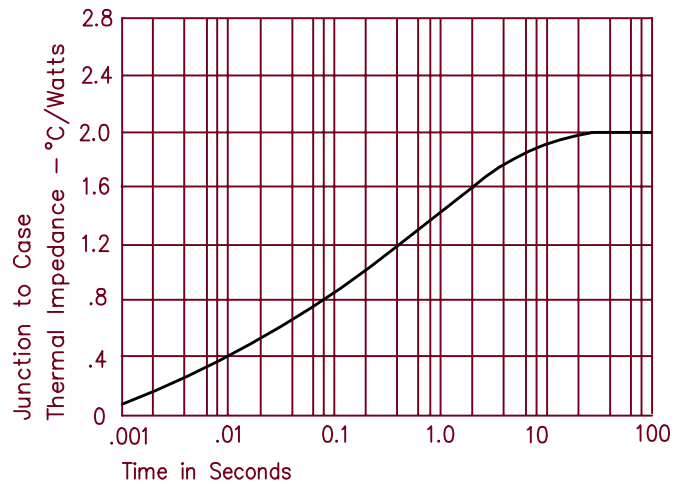


Figure 2
Typical Reverse Characteristics

