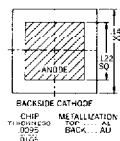


High Efficiency, 20 Amp

2

- Qualified to MIL-S-19500/478
- Exceptional Efficiency
- Mechanically Rugged
- Low Thermal Resistance
- JAN, JANTX and JANTXV Available



This series is suited for use as a power rectifier in switching regulator and high frequency inverter/converter and other appropriate equipment circuits where low voltage drop and fast recovery times are important.

Peak Inverse Voltage	Type
50V	JAN, JANTX, JANTXV 1N5812
100V	JAN, JANTX, JANTXV, 1N5814
150V	JAN, JANTX, JANTXV 1N5816

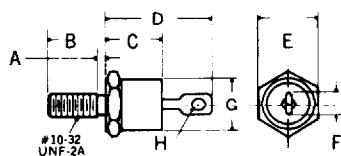
@ $T_c = 100^\circ\text{C}$	20A
@ $T_A = 55^\circ\text{C}$	5A

Surge Current @ 8.3mSec 400A

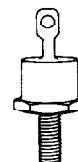
Operating Junction Temperature -65°C to $+175^{\circ}\text{C}$

Storage Ambient Temperature -65°C to $+200^{\circ}\text{C}$

DD-4



	ins.	mm
A	.078 MAX.	1.98 MAX.
B	.437 $\pm$.015	11.10 $\pm$ 0.38
C	.405 MAX.	10.29 MAX.
D	.800 MAX.	20.32 MAX.
E	.490 $\pm$.010	12.42 $\pm$ 0.25
F	.250 MAX.	6.35 MAX.
G	.424 MAX.	10.77 MAX.
H	.066 MIN. DIA.	1.68 MIN. DIA.



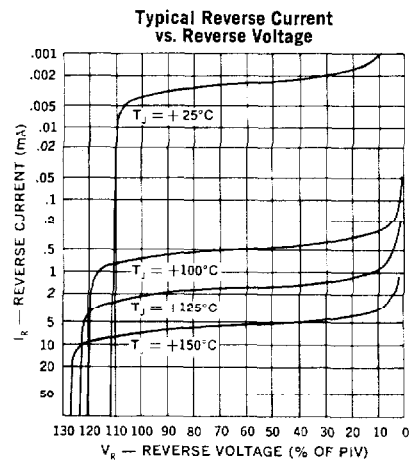
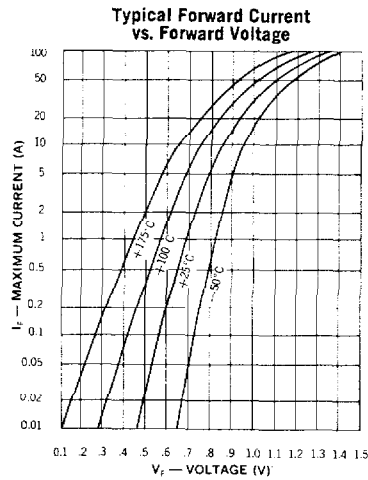
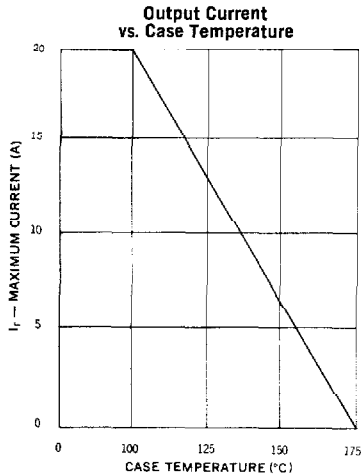
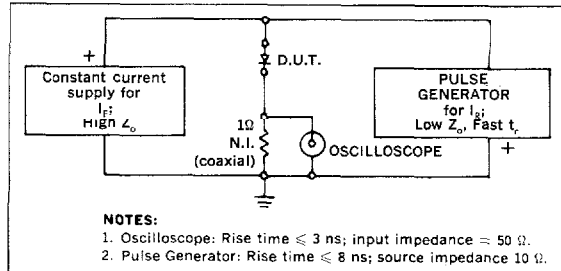
1. Polarity is cathode-to-stud.
2. All metal surfaces tin plated.
3. Maximum unlubricated stud torque: 15 inch pounds.
4. Angular orientation of terminal is undefined.

Microsemi Corp.
Watertown
THE MICRO EXPERTS

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

Type	Peak Inverse Voltage	Minimum Reverse Breakdown Voltage @ 100 μ A	Peak Forward Voltage		Maximum Leakage Current @ PIV	
			@ 10Apk	@ 20Apk	25°C	100°C
J, JTX, JTXV 1N5812	50V	60V				
J, JTX, JTXV 1N5814	100V	110V	.86V MAX.	.95V MAX.	10 μ A	750 μ A
J, JTX, JTXV 1N5816	150V	160V				

Maximum Reverse Recovery Time @ I_F, I_R, I_{REC}	Maximum Forward Recovery Time @ 1A Recovery to 1V	Maximum Forward Recovery Voltage @ 1A $t_r = 8\text{nsec}$	Maximum Junction Capacitance @ -10V
35nsec 1.0A -1.0A -0.1A	15nsec	2.2V	300pf

**Reverse-Recovery Time Test Circuit****Characteristic Waveform**