

Microsemi Corp.
The diode experts



SANTA ANA, CA

For more information call:
(714) 979-8220

**1N5802
thru
1N5806**



FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- ULTRA FAST RECOVERY
- PIV TO 150 VOLTS
- JAN S/TX/TXV TYPES AVAILABLE PER MIL-S-19500/477

MAXIMUM RATINGS

Operating Temperature: -55°C to $+200^{\circ}\text{C}$.

Storage Temperature: -55°C to $+200^{\circ}\text{C}$.

Surge: Pulse 8.3ms, 35 A

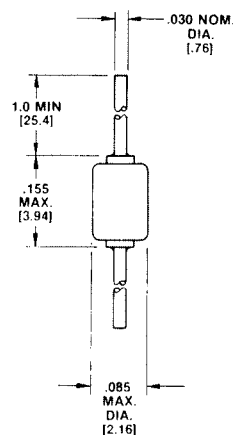
ELECTRICAL CHARACTERISTICS

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) B_V @ 100 μA	AVERAGE RECTIFIED CURRENT I_o	FORWARD VOLTAGE DROP (MAX.) V_F		REVERSE CURRENT (MAX.) I_R @ PIV		SURGE CURRENT (MAX.) (NOTE 1) I_F (surge)	JUNCTION CAPACITANCE (MAX.) C @ -10 V	REVERSE RECOVERY TIME (MAX.) (NOTE 2)
	VOLTS	VOLTS	AMPS	VOLTS		μA		AMPS	pF	n sec
			$T_A = 55^{\circ}\text{C}$	25 $^{\circ}\text{C}$	100 $^{\circ}\text{C}$	25 $^{\circ}\text{C}$	100 $^{\circ}\text{C}$			
1N5802	50	55	2.5	.875	.80	1.0				25
1N5803	75	80	@	@	@	1.0				25
1N5804	100	110	$T_L =$	1.0 Adc	2.5Adc	1.0	@	35	20	25
1N5805	125	135	75 $^{\circ}\text{C}$	250msec	@	1.0	75 $^{\circ}\text{C}$	single	typ.	25
1N5806	150	160	($L = \frac{1}{2}$ ")	pulse	75 $^{\circ}\text{C}$	1.0		cycle		25
				width				8.3msec		25

NOTE 1: $T_A = 55^{\circ}\text{C}$ @ rated I_o , 10–8.3 msec surges

NOTE 2: $I_F = 1.0\text{A}$, $I_R = 1.0\text{A}$, recover to .1A

ULTRA FAST MILITARY RECTIFIERS



**FIGURE 1
PACKAGE A**

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

1N5802 thru 1N5806

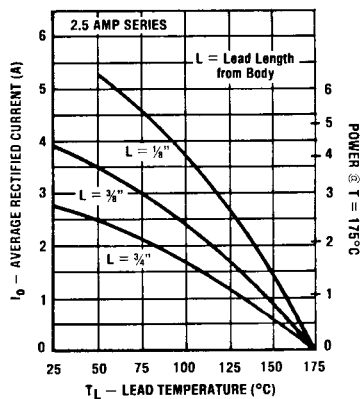


FIGURE 2
OUTPUT CURRENT vs. LEAD TEMP.

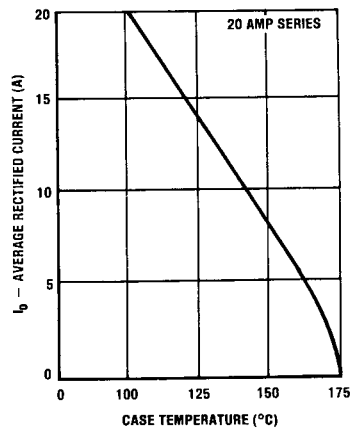


FIGURE 3
OUTPUT CURRENT vs. CASE TEMP.

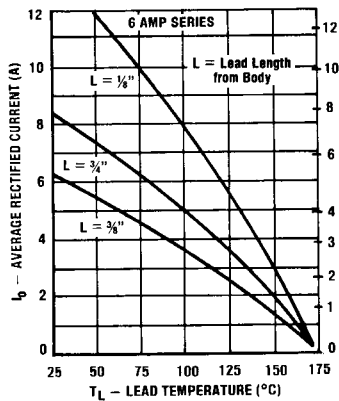


FIGURE 4
OUTPUT CURRENT vs. LEAD TEMP.