

Microsemi Corp.
The diode experts



**1N5802
thru
1N5806**



SANTA ANA, CA

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(714) 979-8220

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°C.
Storage Temperature: -55°C to +200°C.
Surge: Pulse 8.3ms, 35 A

ELECTRICAL CHARACTERISTICS

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) B_V @ 100 μ A	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			μ A		AMPS	pF	n sec
			$T_A = 55^\circ\text{C}$	25°C	100°C	25°C	100°C				
1N5802	50	55	2.5 @	.875 @	.80 @	1.0	1.0	35	20	25	
1N5803	75	80	$T_L = 75^\circ\text{C}$	1.0 Adc @	2.5Adc @	1.0	1.0	single cycle	typ.	25	
1N5804	100	110	($L = \frac{1}{2}''$)	250msec pulse width	75°C	1.0	75°C	8.3msec		25	
1N5805	125	135				1.0				25	
1N5806	150	160				1.0				25	

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

NOTE 2: $I_F = 1.0A$, $I_R = 1.0A$, recover to .1A

**ULTRA FAST
MILITARY
RECTIFIERS**

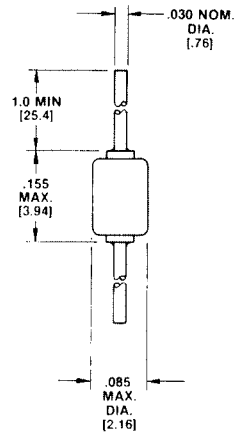


FIGURE 1
PACKAGE A

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

1N5802 thru 1N5806

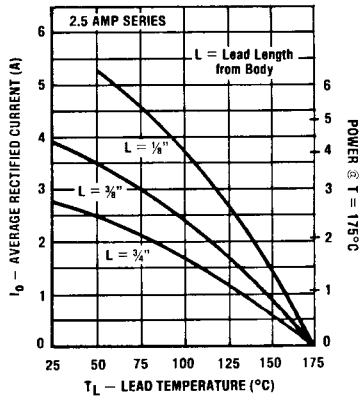


FIGURE 2
OUTPUT CURRENT vs. LEAD TEMP.

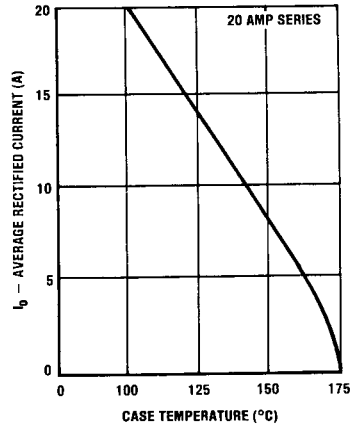


FIGURE 3
OUTPUT CURRENT vs. CASE TEMP.

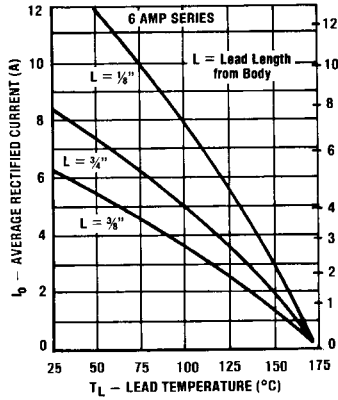


FIGURE 4
OUTPUT CURRENT vs. LEAD TEMP.