

| | V _{RWM} | V _{BR} | T _L =+75°C (NOTE 1) | T _A =+55°C (Note 2) | (8.3 ms pulse) V _F | | I _R | | (NOTE 3) | t _{rr} |
|--------|---------------------|----------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------|----------|----------|-----------------|
| | VOLTS | VOLTS | AMPS | AMPS | VOLTS | | μΑ | | AMPS | ns |
| | State of the second | | 1072 | | 25°C | 100°C | 25°C | 100°C | | |
| 1N5802 | 50 | 55 | 2.5 | 1.0 | 0.875 | 0.800 | 1 | 50 | 35 | 25 |
| 1N5803 | 75 | 80 | 2.5 | 1.0 | | | 1 | 50 | 35 | 25 |
| 1N5804 | 100 | 110 | 2.5 | 1.0 | 0.875 | 0.800 | 1 | 50 | 35 | 25 |
| 1N5805 | 125 | 135 | 2.5 | 1.0 | | | 1 | 50 | 35 | 25 |
| 1N5806 | 150 | 160 | 2.5 | 1.0 | 0.875 | 0.800 | 1 | 50 | 35 | 25 |
| NOTE 1 | · louis rated | at $25 \land @T = 7$ | 5° C at 3/8 inch | lead length D | orato at 20 | $5 \text{ mA/}^{\circ}\text{C} f$ | or T. ab | 0VA 75°C | | |

OTE 1: I₀₁ is rated at 2.5 A @ T_L = 75°C at 3/8 inch lead length. Derate at 25 mA/°C for T_L above 75°C.

NOTE 2: I_{O2} is rated at 1.0 A @ $T_A = 55^{\circ}C$ for PC boards where thermal resistance from mounting point to

ambient is sufficiently controlled where $T_{J(max)}$ does not exceed 175°C. Derate at 8.33 mA/°C for T_A above 55°C.

EXAMPLE 3: $T_A = 25^{\circ}C \otimes I_0 = 1.0 A$ and V_{RWM} for ten 8.3 ms surges at 1 minute intervals

NOTE 4: I_F = 0.5 A, I_{RM} = 0.5 A, I_{R(REC)} = .05 A

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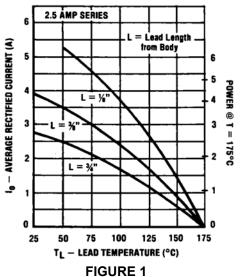
N5802 - 1N5806



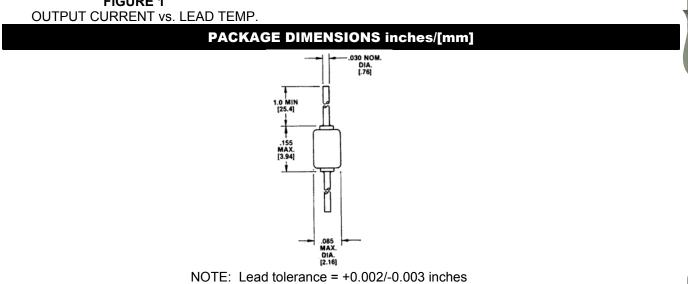
1N5802 thru 1N5806

VOIDLESS-HERMETICALLY-SEALED ULTRAFAST RECOVERY GLASS RECTIFIERS

| SYMBOLS & DEFINITIONS | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|
| Symbol | Definition | | | | | | | | |
| V_{BR} | Minimum Breakdown Voltage: The minimum voltage the device will exhibit at a specified current | | | | | | | | |
| V _{RWM} | Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperat range | | | | | | | | |
| Ι _Ο | Average Rectified Output Current: Output Current Averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle | | | | | | | | |
| VF | Maximum Forward Voltage: The maximum forward voltage the device will exhibit at a specified current | | | | | | | | |
| I _R | Maximum Leakage Current: The maximum leakage current that will flow at the specified voltage and temperature | | | | | | | | |
| С | Capacitance: The capacitance in pF at a frequency of 1 MHz and specified voltage | | | | | | | | |
| t _{rr} | Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified recovery decay point after a peak reverse current occurs. | | | | | | | | |



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