TECHNICAL DATA DATA SHEET 127, REV F

HIGH EFFICIENTCY AXIAL LEAD RECTIFIERS

DESCRIPTION: 50 / 100 / 150 VOLT, 3.0 AMP, 30 NANOSECOND RECTIFIER

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^{\circ}$ C unless otherwise specified.

| RATING | CONDITIONS | MIN | TYP | MAX | UNIT |
|--|--|-----|-----|------------------|----------|
| Peak Inverse Voltage (PIV) 1N5807 / US 1N5809 / US 1N5811 / US | - | - | - | 50 100 150 | Vdc |
| Average DC Output Current (I _o) | T = +55°C | - | - | 3.0 | Amps |
| Peak Single Cycle Surge Current (I _{fsm}) | t_p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load | - | - | 125 | Amps(pk) |
| Operating and Storage Temp. (T _{op} & T _{stq}) | - | -65 | - | +175 | °C |
| Maximum Forward Voltage (V _f) | $I_{f} = 4.0A$ $I_{f} = 6.0A$ (300 μ sec pulse, duty cycle < 2%) | - | - | .875 .925 | Volts |
| Maximum Instantaneous Reverse Current At Rated (PIV) | T _A = 25° C T _A = 100° C | - | - | 5.0 150 | μAmps |
| Reverse Recovery Time (t _{rr}) | $I_f = 0.5A, I_r = 1.0A, I_{rr}$ = 0.25A | - | - | 30 | nsec |
| Thermal Resistance (θ_{JL}) (Axial) | d = 0.375" | - | - | 22 | ° C/W |
| Thermal Resistance (θ_{JEC}) (MELF) | Junction to End Caps | - | - | 8.0 | ° C/W |

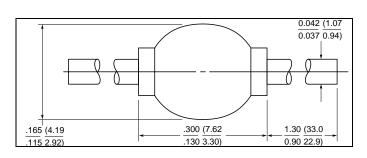
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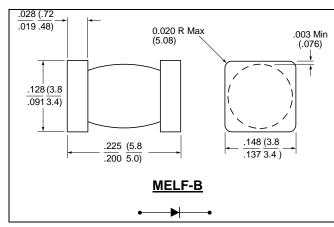
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MECHANICAL DIMENSIONS In Inches / (mm), min./max.



PKG. 304



Note: The cathode side is marked with a dark colored band on one side of the diode body.

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