

R4000F THRU R5000F

HIGH VOLTAGE FAST TRCOVERY RECTIFIER

VOLTAGE: 4000-5000V

CURRENT: 0.2A

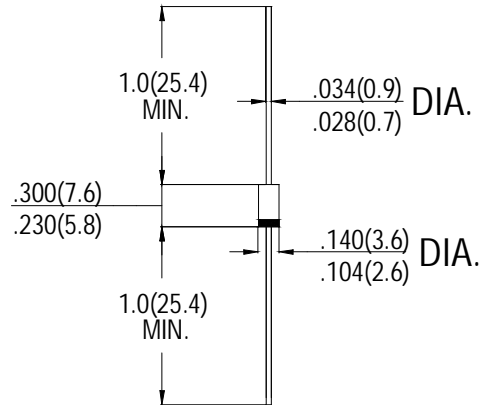
FEATURES

- Fast switching
- Low leakage
- High current capability
- High surge capability
- High reliability

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.35 grams

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| | SYMBOL | R4000F | R5000F | units |
|--|-----------|--------|--------|---------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 4000 | 5000 | V |
| Maximum RMS Voltage | V_{RMS} | 2800 | 3500 | V |
| Maximum DC Blocking Voltage | V_{DC} | 4000 | 5000 | V |
| Maximum Average Forward rectified Current at $T_A=50^\circ\text{C}$ | I_o | 0.2 | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | I_{FSM} | 30 | | A |
| Maximum Forward Voltage Drop per element at 0.2A DC | V_F | 6.5 | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$ | I_R | 5.0 | | μA |
| Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$ | | 100 | | |
| Maximum Reverse Recovery Time (Note) | t_{rr} | 500 | | nS |

Notes: Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$