



## **FR101 THRU FR107**

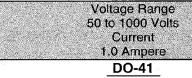
# 1.0 AMP. Fast Recovery Rectifiers

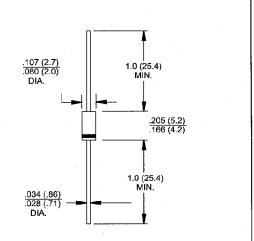
#### **Features**

- Low forward voltage drop
- High current capability
- · High reliability
- High surge current capability

### **Mechanical Data**

- Cases: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight: 0.34 gram





Dimensions in inches and (millimeters)

# Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Symbols	FR101	FR102	FR103	FR104	FR105	FR106	FR107	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_A = 55$ °C	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	1.2							٧
Maximum DC Reverse Current @ T <sub>A</sub> =25℃	5.0							uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =100℃	100							uA
Maximum Reverse Recovery Time ( Note 1 )	150 250					50	00	nS
Typical Junction Capacitance ( Note 2 )	15							pF
Operating Temperature Range T <sub>J</sub>	-65 to +125							°C
Storage Temperature Range T <sub>STG</sub>	-65 to +150							$^{\circ}\mathbb{C}$

Notes: 1. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>B</sub>=1.0A, I<sub>BB</sub>=0.25A

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.





