



FR1601 THRU FR1607

16 A Glass Passivated Fast Recovery Rectifiers

Voltage Range 50 to 1000 Volts

Current 16.0 Amperes

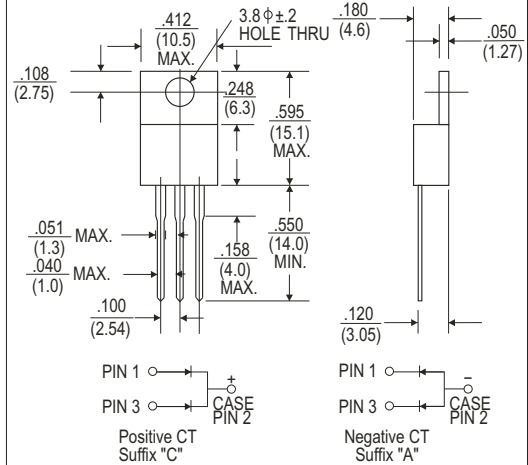
Features

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

Mechanical Data

- * Case: molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Terminals: Leads, solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity: As marked
- * High temperature soldering guaranteed:
250°C/10 seconds 16", (4.06mm) from case.
- * Mounting position: Any
- * Weight: 2.24 grams

TO-220



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%

Type Number	FR1601	FR1602	FR1603	FR1604	FR1605	FR1606	FR1607	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	V
Maximum Average Forward Rectified Current See Fig. 2	16.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	150							A
Maximum Instantaneous Forward Voltage @ 8.0A	1.3							V
Maximum DC Reverse Current @ T _c =25°C	10							uA
At Rated DC Blocking Voltage @ T _c =125°C	100							uA
Maximum Reverse Recovery Time (Note 1)	150			250		500		nS
Typical Thermal Resistance R _{θJC} (Note2)	3.0							°C/W
Operating and Storage Temperature Range T _J T _{STG}	-55 to +150							°C

Notes:

1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Thermal Resistance from Junction to Case Mounted on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES (FR1601 THRU FR1607)

FIG. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

