

# FR201G THRU FR207G

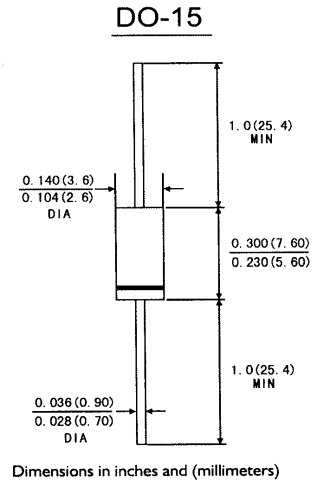
## Glass Passivated Fast Recovery Rectifiers Reverse Voltage – 50 to 1000 V Forward Current – 2 A

### Features

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

### Mechanical Data

- **Case:** Molded plastic, DO-15.
- **Terminals:** Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any



### Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

Parameter	Symbols	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G	Units
	Marking	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G	-
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Forward Voltage at 2 A	$V_F$	1.3							V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	60							A
Maximum Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	5 100							$\mu\text{A}$
Typical Junction Capacitance <sup>2)</sup>	$C_J$	35							pF
Maximum Reverse Recovery Time <sup>1)</sup>	$t_{rr}$	150				250	500		nS
Junction and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150							$^\circ\text{C}$

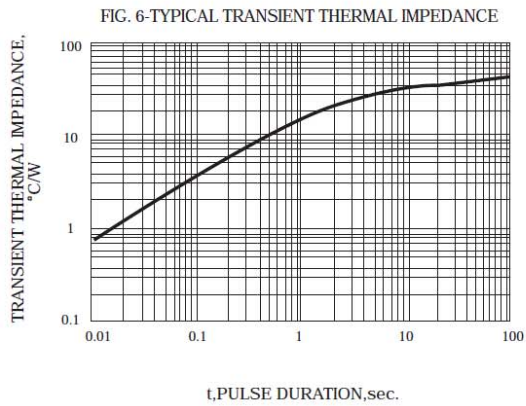
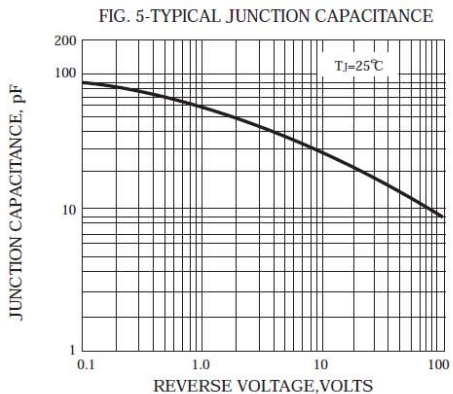
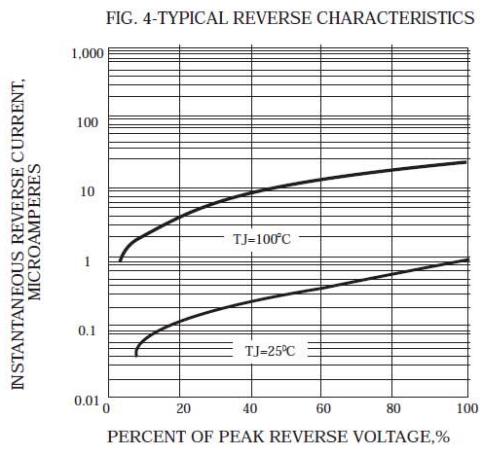
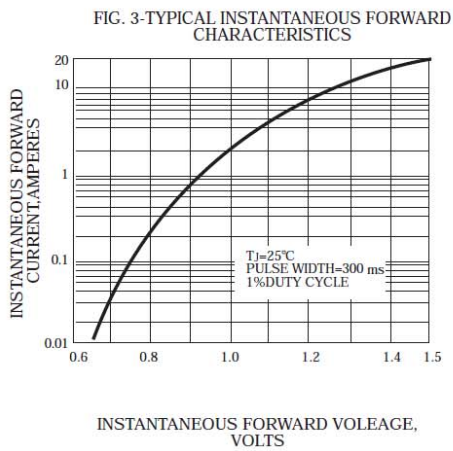
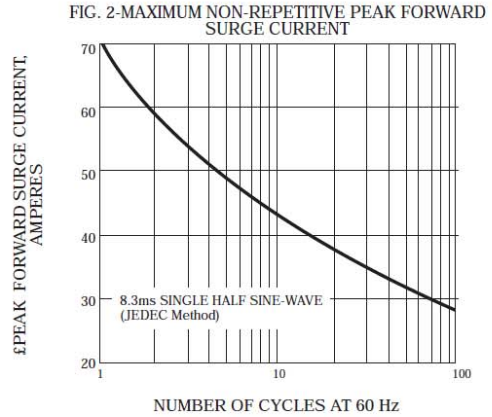
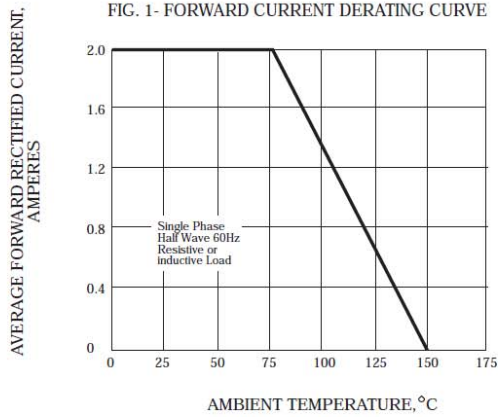
<sup>1)</sup> Reverse Recovery Test Conditions:  $I_F = 0.5 \text{ A}$ ,  $I_R = 1.0 \text{ A}$ ,  $I_{RR} = 0.25 \text{ A}$ .

<sup>2)</sup> Measured at 1MHz and Applied Reverse Voltage of 4.0 V D.C.

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