

# FR201 THRU FR207

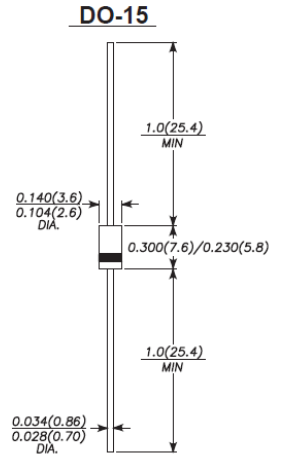
## Fast Recovery Rectifiers Reverse Voltage – 50 to 1000 V Forward Current – 2 A

### Features

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

### Mechanical Data

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



Dimensions in inches and (millimeters)

### Absolute Maximum Ratings and Characteristics

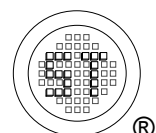
Ratings at 25°C ambient temperature unless otherwise specified, single phase, half wave, 60Hz, resistive or inductive load, for capacitive load, derate current by 20%.

Parameter	Symbols	FR201	FR202	FR203	FR204	FR205	FR206	FR207	Units
	Marking	FR201	FR202	FR203	FR204	FR205	FR206	FR207	-
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
Average Forward Rectified Current .375" (9.5mm) Lead Length at $T_L = 80^\circ\text{C}$	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	60							A
Maximum Forward Voltage at 2A	$V_F$	1.3							V
Maximum Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	$I_R$	5 100							$\mu\text{A}$
Maximum Reverse Recovery Time <sup>1)</sup>	$T_{rr}$	150				250	500		ns
Typical Junction Capacitance <sup>2)</sup>	$C_J$	40							pF
Typical Thermal Resistance to Lead <sup>3)</sup>	$R_{\theta JL}$	20							$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{stg}$	- 55 to + 150							$^\circ\text{C}$

<sup>1)</sup> Reverse recovery condition  $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$ .

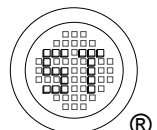
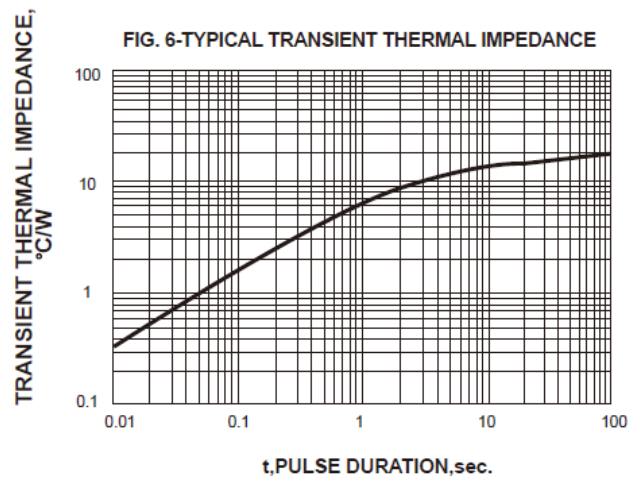
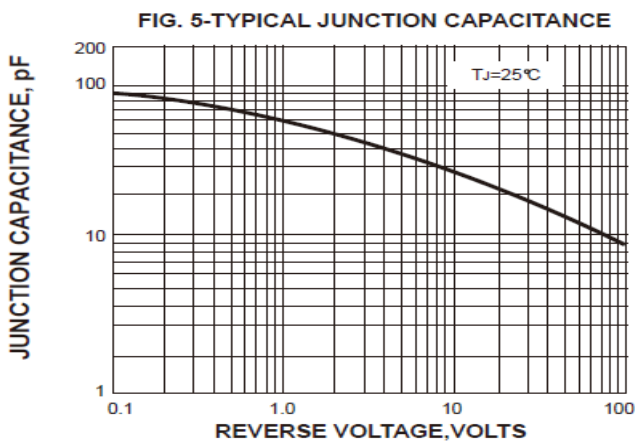
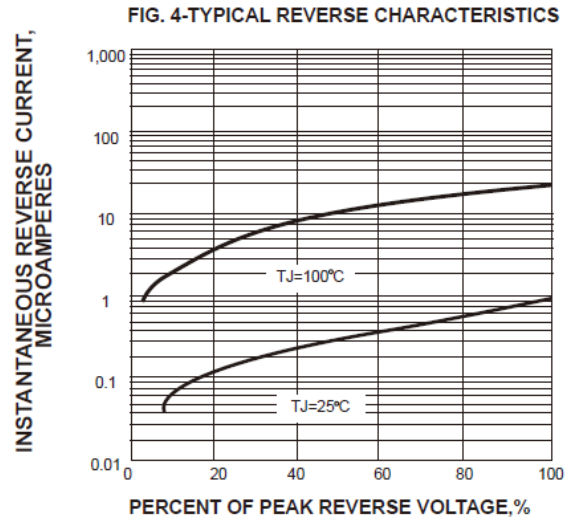
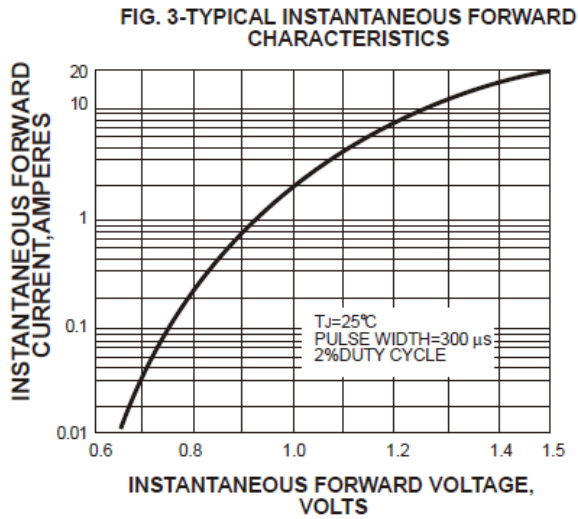
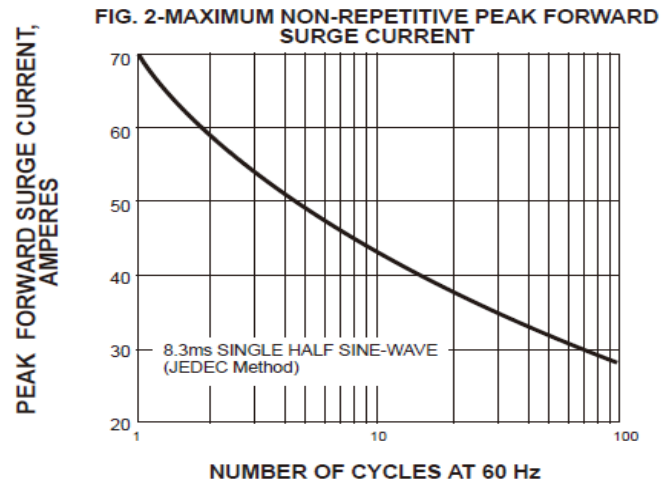
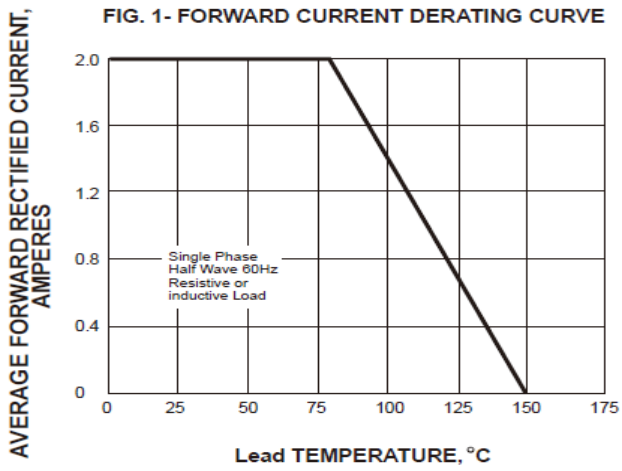
<sup>2)</sup> Measured at 1MHz and applied reverse voltage of 4.0V D.C.

<sup>3)</sup> Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted.



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## Electrical Characteristics Curves



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## Marking information

" \*\*\*\*\* " = Part No.

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