

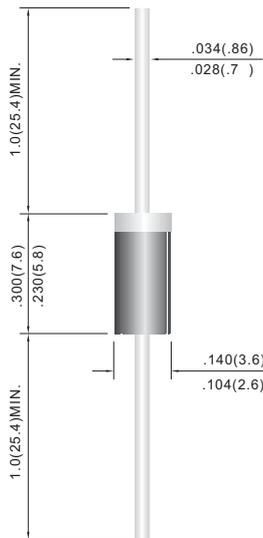
# FR201~FR207

## FAST SWITCHING PLASTIC RECTIFIER

**VOLTAGE** 50 to 1000 Volts **CURRENT** 2.0 Amperes



**DO-15** Unit: inch(mm)



### FEATURES

- High current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Low leakage.
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency.
- Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

### MECHANICAL DATA

Case: Molded plastic, DO-15  
 Terminals: Axial leads, solderable to MIL-STD-202G, Method 208  
 Polarity: Color Band denotes cathode end  
 Mounting Position: Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	FR201	FR202	FR203	FR204	FR205	FR206	FR207	UNITS
Maximum Recurrent 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 Average Forward Current .375" (9.5mm) lead length at $T_A=55^\circ C$	$I_{AV}$	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	70							A
Maximum Forward Voltage at 2.0A	$V_F$	1.3							V
Maximum DC Reverse Current $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	$I_R$	5.0 500							$\mu A$
Maximum Reverse Recovery Time (Note 1)	$T_{RR}$	150				250	500		ns
Typical Junction capacitance (Note 2)	$C_J$	35							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	40							$^\circ C / W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 TO +125							$^\circ C$

- NOTES: 1. Reverse Recovery Test Conditions:  $I_F=.5A, I_R=1A, I_{rr}=.25A$   
 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC  
 3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length with both leads equally heatsink.

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### RATING AND CHARACTERISTIC CURVES

