

FR201 THRU FR207

**FAST SWITCHING
PLASTIC RECTIFIER**
VOLTAGE:50 TO 1000V CURRENT: 2.0A



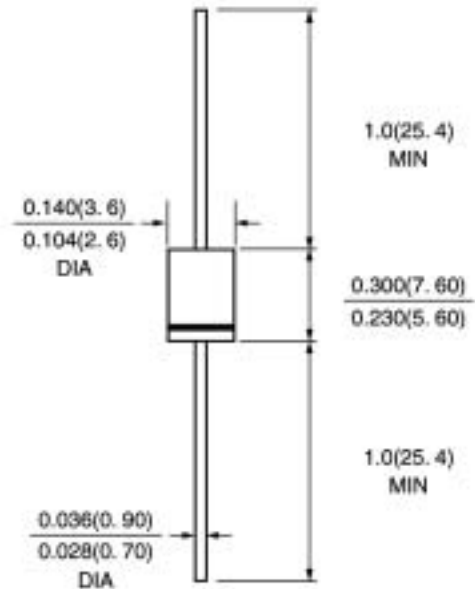
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension
Fast switching for high efficiency

MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any

DO- 15\DO-204AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	FR 201	FR 202	FR 203	FR 204	FR 205	FR 206	FR 207	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 Rectified Current 3/8"lead length at Ta =75°C	I _{f(av)}	2.0							A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	70.0							A
Maximum Forward Voltage at rated Forward Current and 25°C	V _f	1.3							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage	I _r	5.0							μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150			250	500		nS	
Typical Junction Capacitance (Note 2)	C _j	40.0							pF
Typical Thermal Resistance (Note 3)	R(ja)	40.0							°C/W
Storage and Operating Junction Temperature	T _{stg,Tj}	-50 to +150							°C

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES FR201 THRU FR207

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

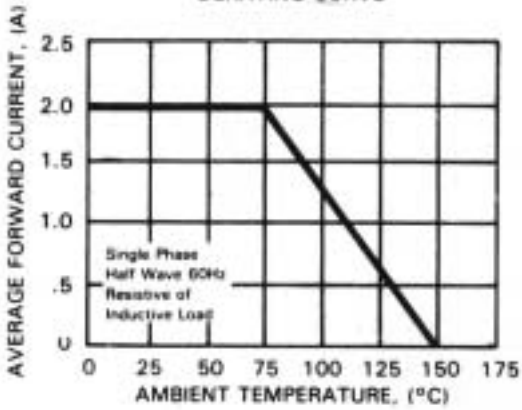


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

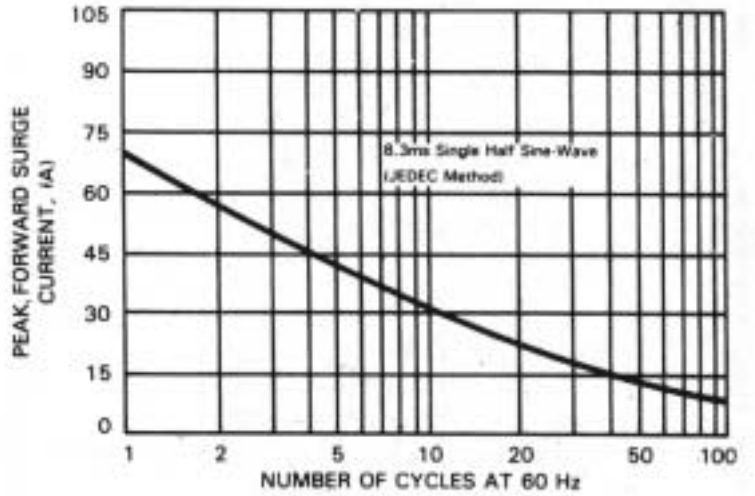


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

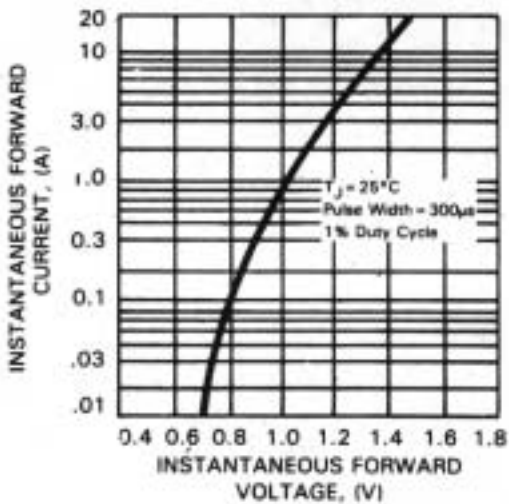
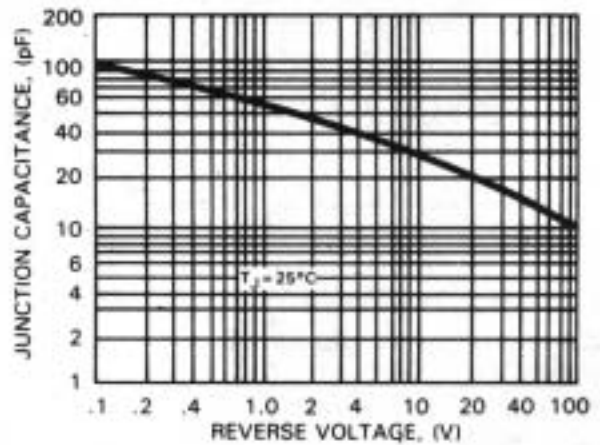


FIG. 4 - TYPICAL JUNCTION CAPACITANCE



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