

# DC COMPONENTS CO., LTD.

### **RECTIFIER SPECIALISTS**

FR201 THRU FR207

## 

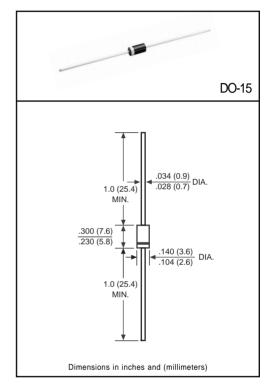
#### **FEATURES**

- \* Fast switching
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High current surge
- \* High reliability

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.38 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



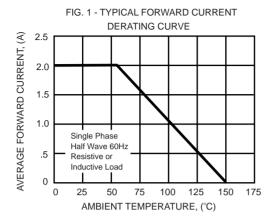
	SYMBOL	FR201	FR202	FR203	FR204	FR205	FR206	FR207	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	70							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=25°C	5.0								μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 55°C		100							
Maximum Reverse Recovery Time (Note 1)	trr		15	50		250	5	00	nSec
Typical Junction Capacitance (Note 2)	C1	40							pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150							٥C

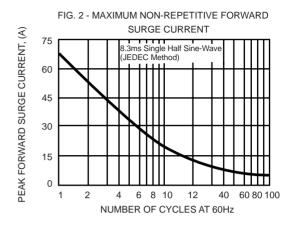
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

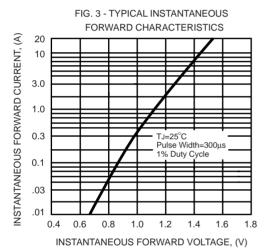
2. Measured at 1MHz and applied reverse voltage of 4.0 volts

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## **RATING AND CHARACTERISTIC CURVES (FR201 THRU FR207)**







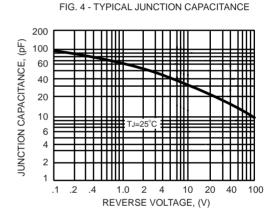
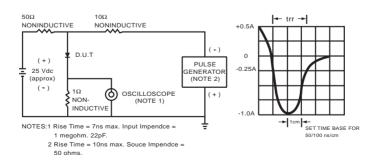


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC



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