

# RGPP3A THRU RGPP3M

**GLASS PASSIVATED  
FAST RECOVERY RECTIFIER**  
VOLTAGE: 50 TO 1000V      CURRENT: 1.0A

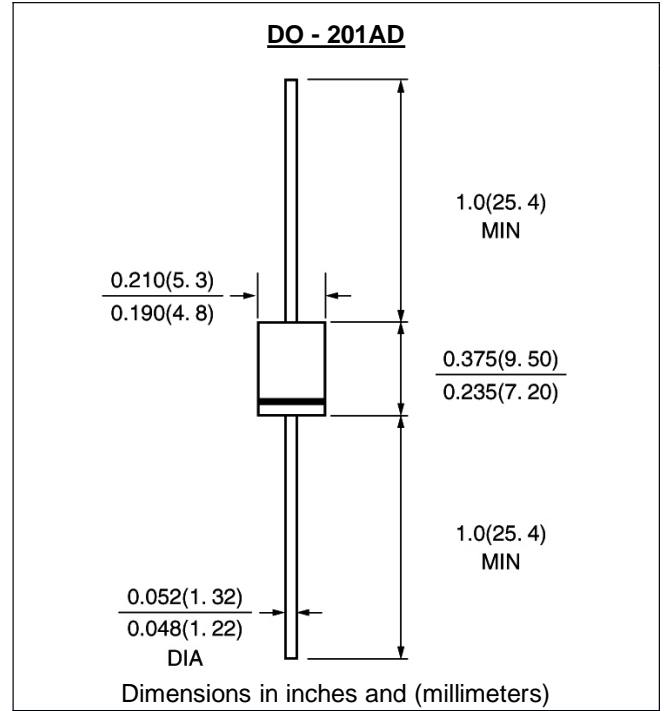


## FEATURE

Molded case feature for auto insertion  
High Switching Capability  
Low leakage current  
High surge capability  
High temperature soldering guaranteed  
250°C /10sec/0.375" lead length at 5 lbs tension  
Glass Passivated chip

## 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



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

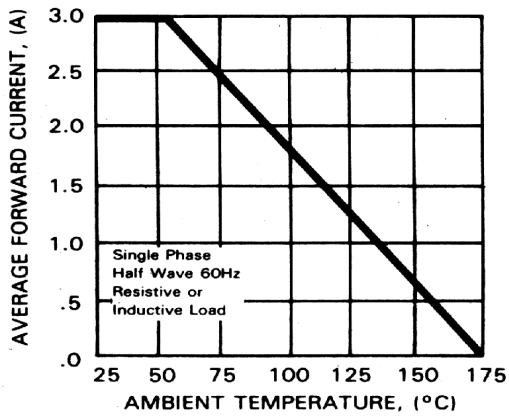
	SYMBOL	RGPP 3A	RGPP 3B	RGPP 3D	RGPP 3G	RGPP 3J	RGPP 3K	RGPP 3M	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at T <sub>a</sub> =55°C	I <sub>f(av)</sub>	3.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	125							A
Maximum Instantaneous Forward Voltage at rated forward current	V <sub>f</sub>	1.3							V
Maximum full load reverse current full cycle at T <sub>L</sub> =75°C	I <sub>r(av)</sub>	30							μA
Maximum DC Reverse Current at rated DC blocking voltage T <sub>a</sub> =25°C T <sub>L</sub> =55°C	I <sub>r</sub>	5.0 / 100.0							μA / μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	50.0							pF
Maximum Reverse Recovery Time (Note 2)	T <sub>rr</sub>	150			250		500		nS
Storage and Operation Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150							°C

Note:

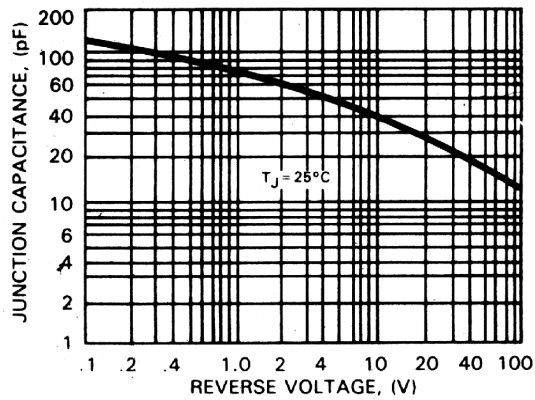
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A

# RATINGS AND CHARACTERISTIC CURVES RGPP3A THRU RGPP3M

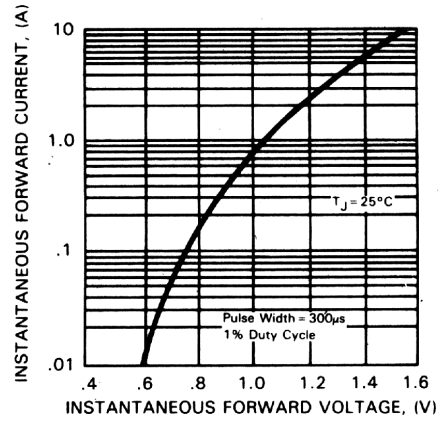
**FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE**



**FIG. 3 - TYPICAL JUNCTION CAPACITANCE**



**FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

