

# RGPP15 SERIES

## GLASS PASSIVATED FAST SWITCHING RECTIFIER



### FEATURE

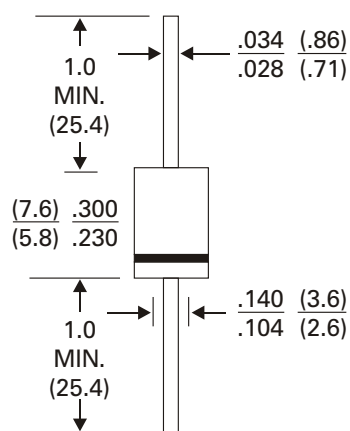
- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

### MECHANICAL DATA

Case: Mold plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals: Axial leads, solderable per MIL-STD-202, method 208  
 Polarity: Color band denotes cathode  
 Mounting Position: Any

VOLTAGE RANGE 50 TO 1000 Volts  
 CURRENT 1.5 Amperes

### DO-15



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

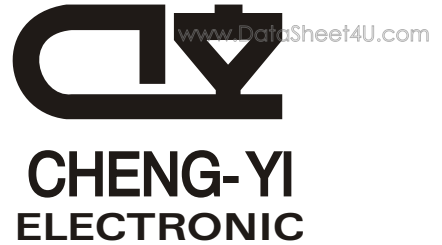
Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

	RGPP15A	RGPP15B	RGPP15D	RGPP15G	RGPP15J	RGPP15K	RGPP15M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	1.5							A
Peak Forward Surge Current 8.3 ms single half sine-wave	50							A
Maximum Forward Voltage at 1.5A Peak	1.2					1.3		V
Maximum Reverse Current, Rated DC Full Cycle Average, .375", (9.5mm) Lead Length $T_A = 55^\circ\text{C}$	30							$\mu\text{A}$
Maximum DC Reverse Current, at Rated DC Blocking Voltage	5.0							$\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	150	150	150	150	250	500	500	nS
Typical Junction Capacitance (Note 2)	15							pF
Operating and Storage Temperature Range	-65 to +175							$^\circ\text{C}$

Notes : 1. Reverse Recovery Test Conditions :  $I_F = .5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{RR} = .25\text{A}$   
 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

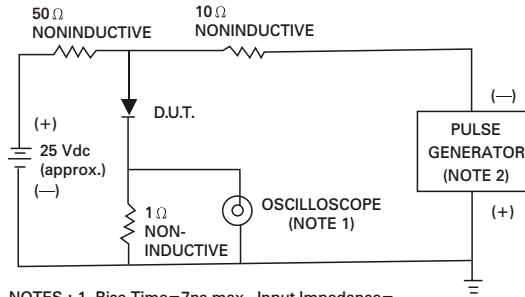
# RGPP15 SERIES

## GLASS PASSIVATED FAST SWITCHING RECTIFIER



### RATING AND CHARACTERISTICS CURVES RGPP15 SERIES

Fig. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



- NOTES : 1. Rise Time=7ns max., Input Impedance= 1 megohm, 22pF  
2. Rise Time=10ns max., Source Impedance= 50 ohms.

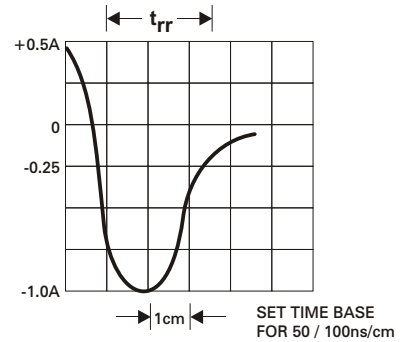


Fig. 2 - FORWARD CURRENT DERATING CURVE

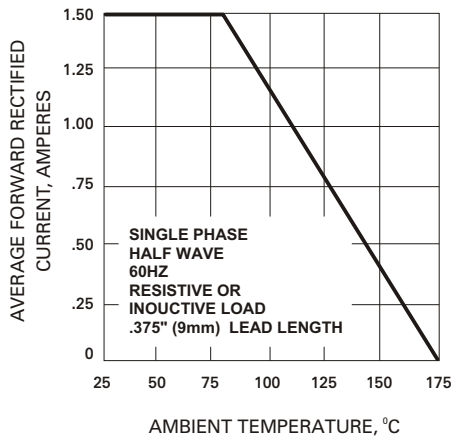


Fig. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

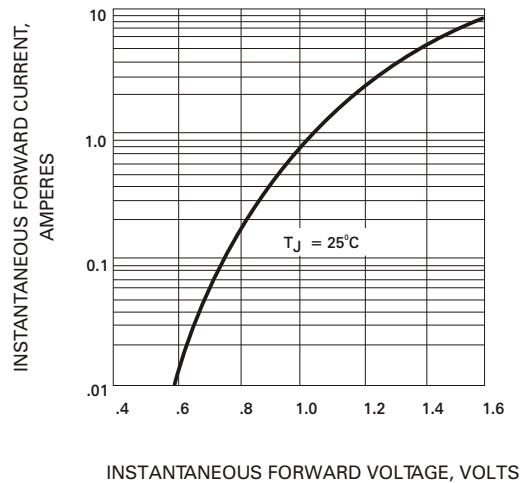


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

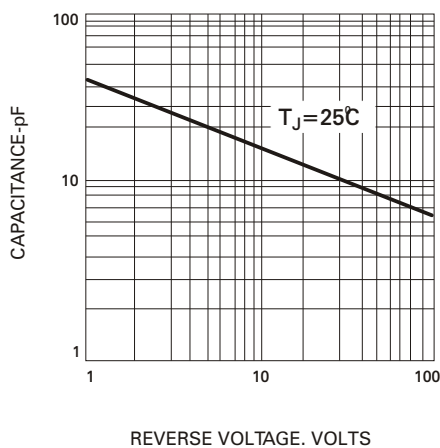


Fig. 5 - PEAK FORWARD SURGE CURRENT

