

RGPP15 SERIES

GLASS PASSIVATED FAST SWITCHING RECTIFIER



FEATURE

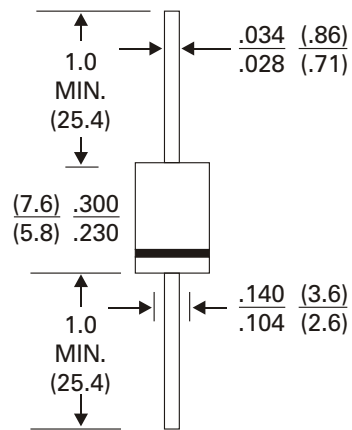
- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

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							μA
Maximum DC Reverse Current, at Rated DC Blocking Voltage	5.0							μA
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

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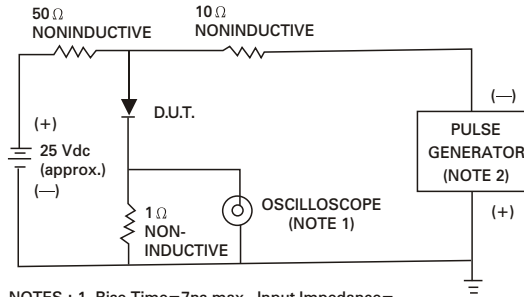
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**CHENG-YI
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RATING AND CHARACTERISTICS CURVES RGPP15 SERIES

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.

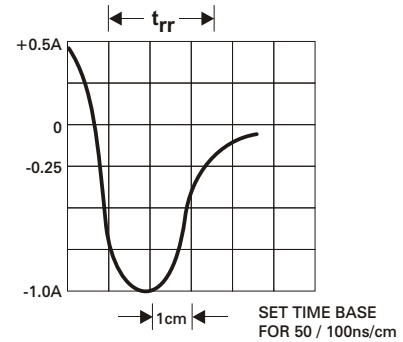


Fig. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

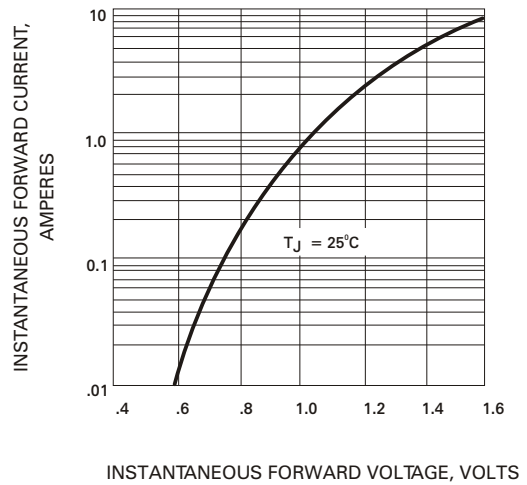


Fig. 2 - FORWARD CURRENT DERATING CURVE

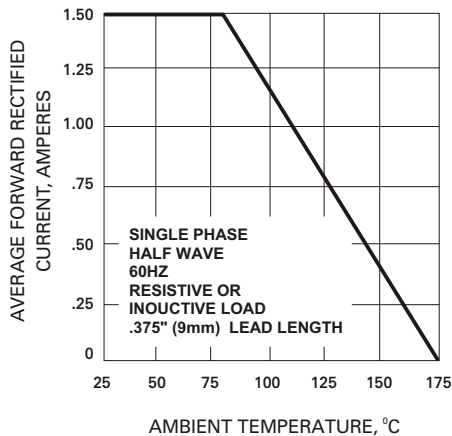


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

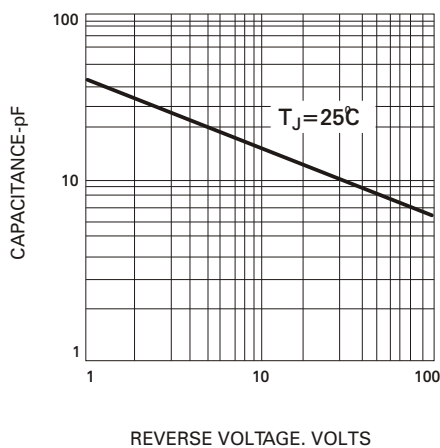


Fig. 5 - PEAK FORWARD SURGE CURRENT

