

RGPP10 SERIES

GLASS PASSIVATED FAST SWITCHING RECTIFIER



FEATURE

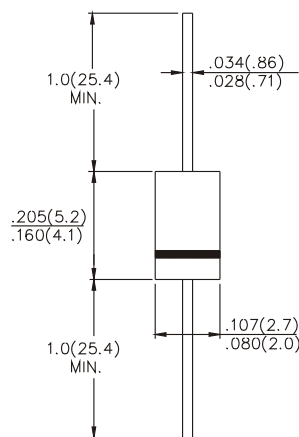
- High voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

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 1.0 Amperes

DO-41



Dimensions in inches and (millimeters)

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%.

	RGPP10A	RGPP10B	RGPP10D	RGPP10G	RGPP10J	RGPP10K	RGPP10M	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°C	1.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave	50							A
Maximum Forward Voltage at 1.0A Peak	1.2					1.3		V
Maximum Reverse Current, Rated DC Full Cycle Average, .375", (9.5mm) Lead Length at T _A =55°C	30							μ A
Maximum DC Reverse Current, at Rated DC Blocking Voltage	5.0							μ 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							°C

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

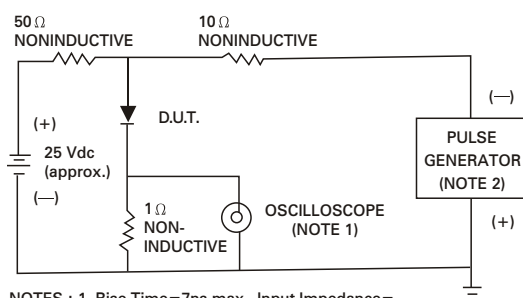
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RATING AND CHARACTERISTICS CURVES RGPP10 SERIES

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.

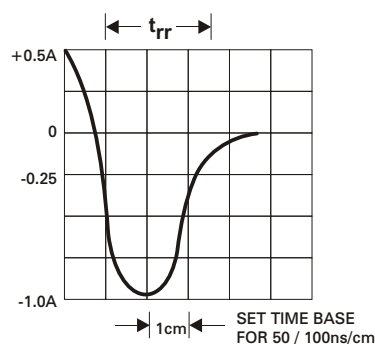


Fig. 2 - FORWARD CURRENT DERATING CURVE

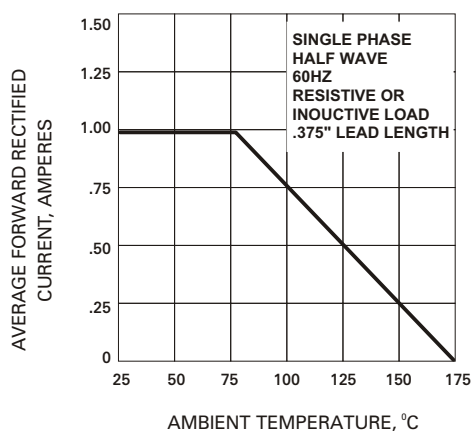


Fig. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

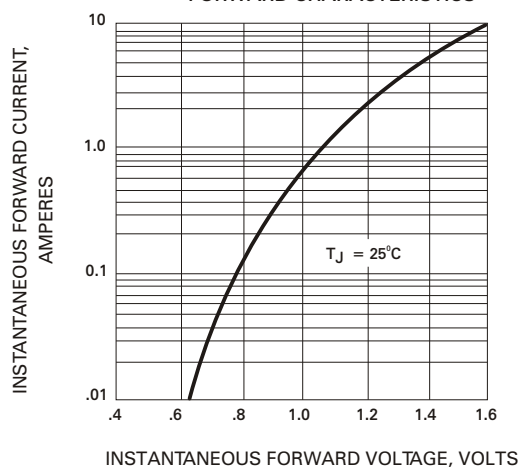


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

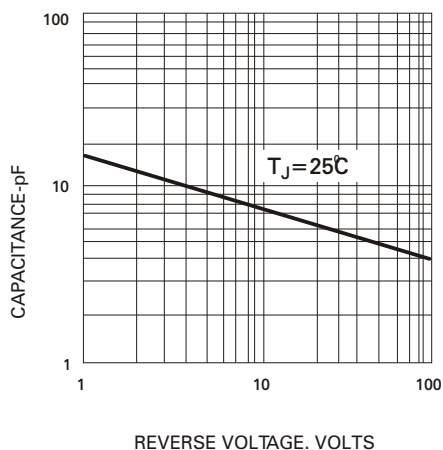


Fig. 5 - PEAK FORWARD SURGE CURRENT

