

RGPP10 SERIES

GLASS PASSIVATED FAST SWITCHING RECTIFIER



FEATURES

- Glass passivated junction
- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

Case: Molded 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

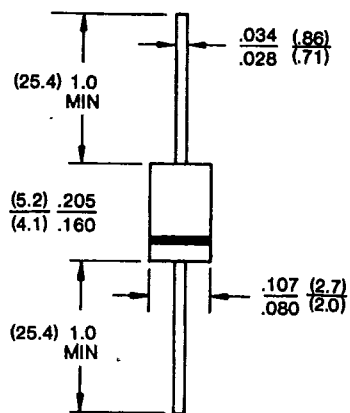
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

DO-41



All dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, 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 Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length T _A = 55°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							°C

NOTES:

1—Reverse Recovery Test Conditions: I_F = .5A, I_R = 1A, I_{rr} = .25A

2—Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

**RATING AND CHARACTERISTIC CURVES
RGPP10 SERIES**

FIG. 1 — REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

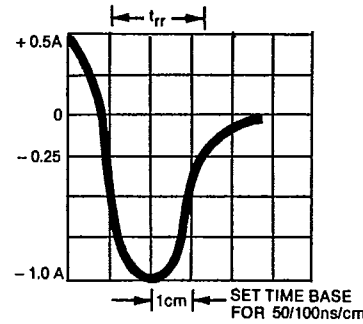
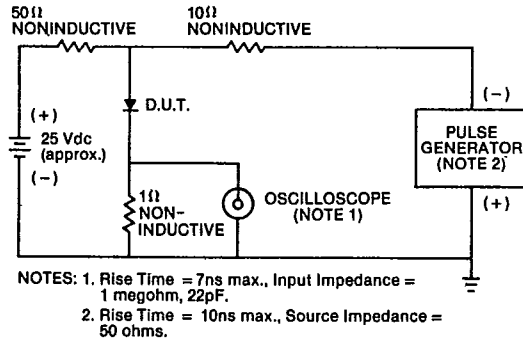


Fig. 2 — FORWARD CURRENT DERATING CURVE

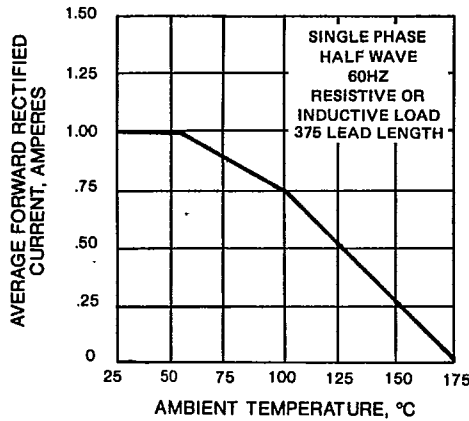


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

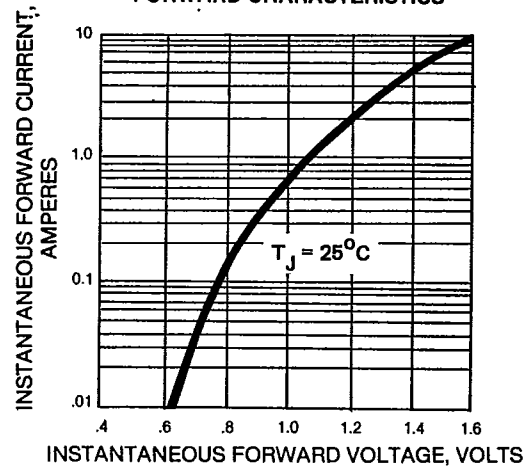


FIG. 4 — TYPICAL JUNCTION CAPACITANCE

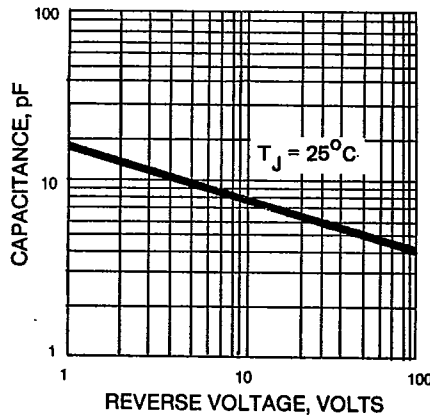
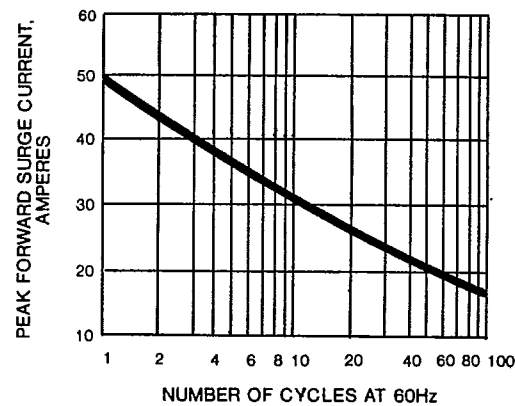


FIG. 5 — PEAK FORWARD SURGE CURRENT



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