

Lagertyp RGP30M



FEATURES

- High temperature metallurgically bonded—no compression contacts as found in diode-constructed rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing General Instrument Proprietary 4B Flame Retardant Epoxy Molding Compound
- Glass passivated junction in a DO-201AD package
- 3 ampere operation at $T_A = 55^\circ\text{C}$ with no thermal runaway
- Typical I_R less than $1\mu\text{A}$
- Exceeds environmental standards of MIL-STD-19500/228
- High temperature soldering guaranteed $350^\circ\text{C}/10$ seconds/.375" (9.5mm) lead length/5 lbs., (11kg) tension

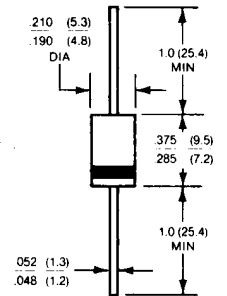
MECHANICAL DATA

Case: Molded plastic over glass
 Terminals: Axial leads, solderable per MIL-STD-202, Method 208
 Polarity: Band denotes cathode
 Mounting Position: Any
 Weight: 0.04 ounce 1.12 grams

VOLTAGE RANGE
 50 to 1000 Volts

CURRENT
 3.0 Amperes

DO-201AD



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%.

	RGP30A	RGP30B	RGP30D	RGP30G	RGP30J	RGP30K	RGP30M	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 $T_A = 55^\circ\text{C}$				3.0				A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				125				A
Maximum Forward Voltage at 3.0 A				1.3				V
Maximum Reverse Current, at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$				5.0				μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length $T_A = 55^\circ\text{C}$				100				μA
Typical Junction Capacitance (note 1)				60				pF
Maximum Reverse Recovery Time (note 2)	150	150	150	150	250	500	500	ns
Operating and Storage Temperature Range				-65 to +175				$^\circ\text{C}$

NOTES:
 1—Measured at 1 MHz and applied reverse voltage of 4.0 Volts
 2—Reverse Recovery Test Conditions: $I_F = .5\text{A}$, $I_R = 1\text{A}$, $t_{rr} = .25\text{A}$

RATING AND CHARACTERISTIC CURVES RGP30 SERIES

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

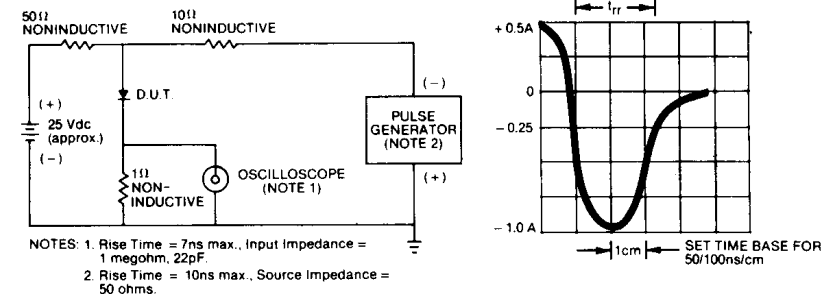


FIG. 2—FORWARD CURRENT DERATING CURVE

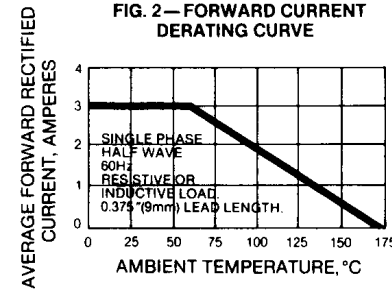


FIG. 4—TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

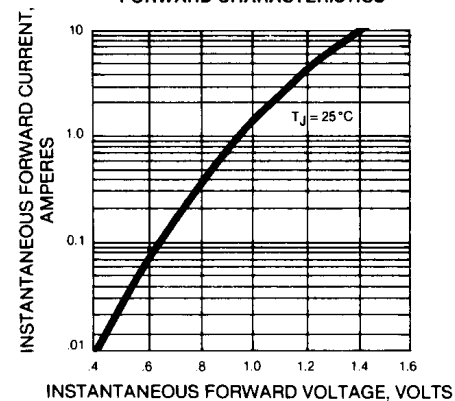


FIG. 3—PEAK FORWARD SURGE CURRENT

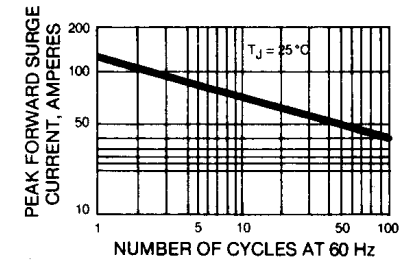


FIG. 5—TYPICAL JUNCTION CAPACITANCE

