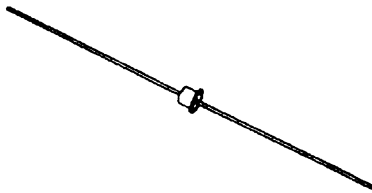


GERMANIUM RECTIFIERS 1N91,2,3

Germanium alloy junction rectifiers types 1N91, 1N92 and 1N93 have become industry standards of quality. They have demonstrated satisfactory life for over 25,000 hours with no significant change in characteristics. The top hat package and associated hermetic seal, coupled with a closely controlled manufacturing process, guarantees continued product excellence. These germanium rectifiers offer extremely low forward resistance that is difficult to match with any other type rectifier. The new ratings permit operation up to 95°C ambient and storage up to 105°C.

Quant.	1N91	1N92	1N93
1-10	1.50	1.75	2.50
11-99	1.15	1.50	2.00
100-999	.95	1.15	1.75
1K-5K	.80	1.00	1.50
5K-10K	.75	.85	1.15

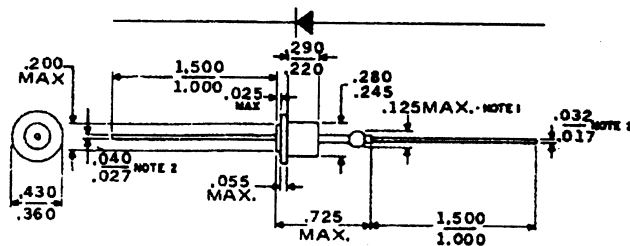
Larger Quantity Pricing on Request



FEATURES

- High Efficiency—Extremely Low Forward Drop
- Axial Leads—Easy Assembly
- Long Life—Satisfactory Operation for over 25,000 hrs.
- Reliability—Guaranteed by hermetic seal and rugged construction under severe environmental conditions.

OUTLINE DRAWING



Notes

1. Dim. to allow for pinch or seal deformation anywhere along tubulation (optional).
2. Dim to be controlled to within .250 from the point of attachment to rectifier.

RATINGS AND SPECIFICATIONS

(60 cps Sinusoidal, Resistive or Inductive Load)

55°C Free Convection Ambient

	1N91	1N92	1N93
Maximum Allowable Peak Inverse Voltage	100	200	300 volts
Maximum Allowable RMS Voltage	70	140	210 volts
Max. Allowable Cont. Reverse D-C Voltage (working, or blocking, voltage)	65	95	125 volts
Maximum D-C Output	150	100	75 ma
Maximum Leakage Current (Full-cycle average)	1.35	.95	.6 ma
Maximum Full-load Voltage Drop (Full cycle ave.)	.22	.19	.18 volts
Max. Allowable One-Cycle Surge Current	25	25	25 amps
Max. I^2t at 75°C (Junction) ($t \leq .008$ sec.)	2.6	2.6	2.6 amps ² sec
Max. I^2t at 105°C (Junction) ($t \leq .008$ sec.)	1.0	1.0	1.0 amps ² sec.
Maximum Operating Frequency	50	50	50 kc
Ambient Operating Temperature	← -65 to +95°C →		
Storage Temperature	← -65 to +105°C →		