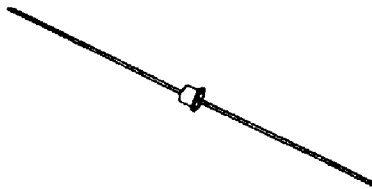
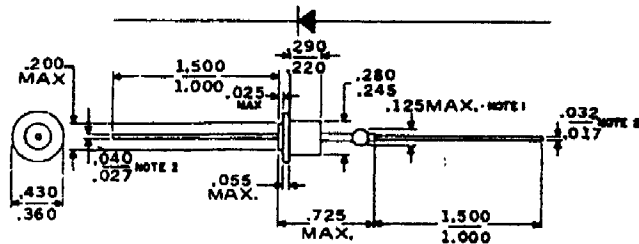


## GERMANIUM RECTIFIER 1N91,2,3



### 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.

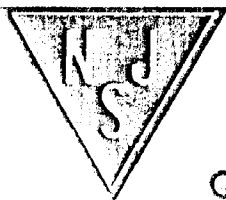


- Notes
1. Dim. to allow for pinch or seal deformation anywhere along tubulation (optional).
  2. Dim to be controlled to within .250 from the point of attachment to rectifier.

### 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 <sup>2</sup> t at 75°C (Junction) (t ≦ .008 sec.)	2.6	2.6	2.6 amps <sup>2</sup> sec
Max. I <sup>2</sup> t at 105°C (Junction) (t ≦ .008 sec.)	1.0	1.0	1.0 amps <sup>2</sup> sec.
Maximum Operating Frequency	50	50	50 kc
Ambient Operating Temperature	← -65 to +95°C - →		
Storage Temperature	← -65 to +105°C →		



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.