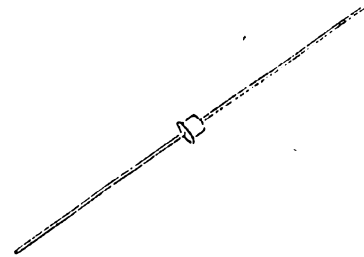
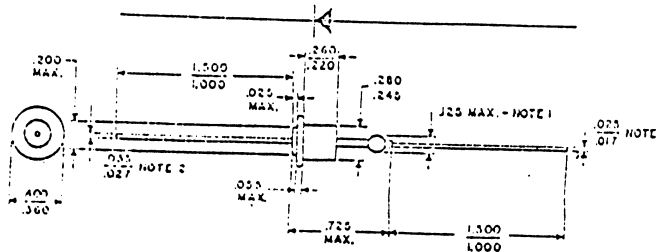


Germanium
RECTIFIERS

1N91,2,3



OUTLINE DRAWING



NOTES
1. DIM. TO ALLOW FOR PITCH OR SEAL DEFORMATION ANYWHERE ALONG TUBULATION (OPTIONAL).
2. DIM. TO BE CONTROLLED TO WITHIN .020 FROM THE POINT OF ATTACHMENT TO RECTIFIER.

COMPLIES WITH EIA REGISTERED OUTLINE DO-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.

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 ² t at 75°C (Junction) (t ≤ .008 sec.)	2.6	2.6	2.6 amps ² sec.
Max. I ² t at 105°C (Junction) (t ≤ .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 —→		

For military types see USN 1N93 and USAF 1N315

*For values at temperatures other than 55°C see charts.

