New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

# BLY94

## V.H.F. POWER TRANSISTOR

N-P-N planar epitaxial transistor intended for use in class-A, B and C operated mobile, industrial and military transmitters with a supply voltage of 28 V. The transistor is resistance stabilized. Every transistor is tested under severe load mismatch conditions. It has a plastic encapsulated stripline package. All leads are isolated from the stud.

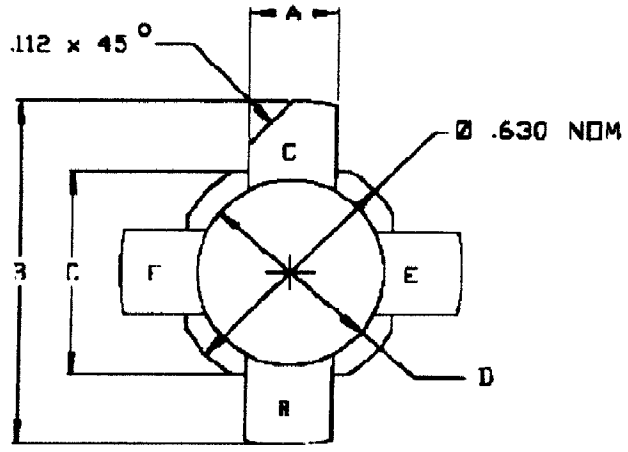
### QUICK REFERENCE DATA

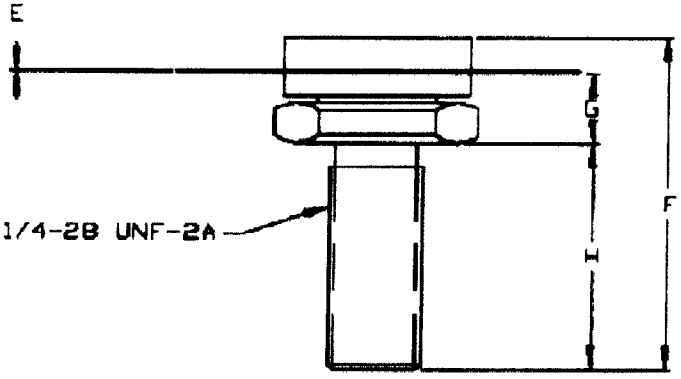
R.F. performance up to $T_{mb}$ = 25 °C in an unneutralized common-emitter class-B circuit

| mode of operation | $V_{CE}$ V | f MHz | $P_S$ W | $P_L$ W | $I_C$ A | $G_p$ dB | $\eta$ % | $\overline{z_i}$ Ω | $\overline{Y_L}$ mS |
|---|---|---|---|---|---|---|---|---|---|
| c.w. | 28 | 175 | < 10 | 50 | < 2,75 | > 7 | > 65 | 0,8 + j1,45 | 125 – j66 |

### MECHANICAL DATA

Dimensions in mm




| | MINIMUM Inches/mm | MAXIMUM Inches/mm |
|---|---|---|
| A | .220/5,59 | .230/5,84 |
| B | | 1.050/26,67 |
| C | .545/13,84 | .555/14,10 |
| D | .495/12,57 | .505/12,83 |
| E | .003/0,08 | .007/0,18 |
| F | | .830/21,08 |
| G | .185/4,70 | .198/5,03 |
| H | .497/12,62 | .530/13,46 |

**Quality Semi-Conductors**