

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

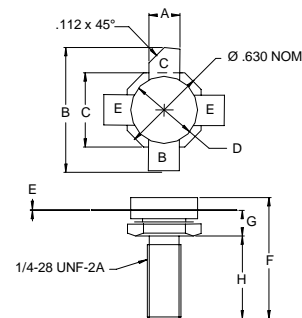
The **ASI BLX14** is Designed for HF and VHF band applications.

FEATURES:

- $P_G = 13$ dB min. at 15 W/1.6 MHz
- $d_3 = -40$ dB typ. at 15 W(PEP)
- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|---------------|----------------------|
| I_C | 4.0 A |
| V_{CBO} | 85 V |
| V_{EBO} | 4.0 V |
| V_{CEO} | 36 V |
| P_{DISS} | 88 W @ $T_C = 25$ °C |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +200 °C |
| θ_{JC} | 1.99 °C/W |

PACKAGE STYLE .500 4L STUD (A)


| DIM | 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 |

CHARACTERISTICS $T_C = 25$ °C

| SYMBOL | TEST CONDITIONS | | | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|----------------|----------------------------------|-------------------------|-----------------------|---------|---------|---------|----------|
| BV_{CBO} | $I_C = 25$ mA | | | 85 | | | V |
| BV_{CER} | $I_C = 25$ mA | $R_{BE} = 5.0$ Ω | | 85 | | | V |
| BV_{CEO} | $I_C = 50$ mA | | | 36 | | | V |
| BV_{EBO} | $I_E = 10$ mA | | | 4.0 | | | V |
| h_{FE} | $V_{CE} = 6.0$ V | $I_C = 1.4$ A | | 15 | | 100 | --- |
| f_T | $V_{CE} = 20$ V | $I_C = 3.0$ A | | | 250 | | MHz |
| C_C | $V_{CB} = 30$ V | $f = 1.0$ MHz | | | 115 | 125 | pF |
| G_P d_3 | $V_{CE} = 28$ V $f = 1.6$ MHz | $I_{CQ} = 2.0$ A | $P_{OUT} = 15$ W(PEP) | 13 | -40 | | dB dB |

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