



BLX13C

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI BLX13C** is Designed for 28 V, Linear Amplifier, class A and AB in the HF and VHF bands.

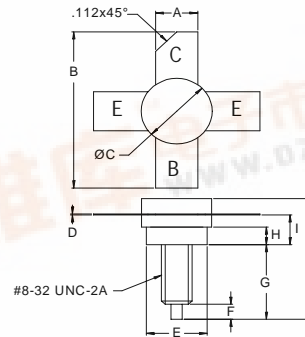
FEATURES:

- $P_G = 21$ dB Typical at 25 W/ 28 MHz
- **OmnigoldTM** Metallization System

MAXIMUM RATINGS

| | |
|---------------|---------------------------|
| I_C | 3.0 A |
| V_{CE} | 36 V |
| V_{CB} | 65 V |
| P_{DISS} | 73 W @ $T_C = 25^\circ C$ |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 2.39 °C/W |

PACKAGE STYLE .380" 4L STUD



| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | .220 / 5.59 | .230 / 5.84 |
| B | .980 / 24.89 | |
| C | .370 / 9.40 | .385 / 9.78 |
| D | .004 / 0.10 | .007 / 0.18 |
| E | .320 / 8.13 | .330 / 8.38 |
| F | .100 / 2.54 | .130 / 3.30 |
| G | .450 / 11.43 | .490 / 12.45 |
| H | .090 / 2.29 | .100 / 2.54 |
| I | .155 / 3.94 | .175 / 4.45 |
| J | | .750 / 19.05 |

CHARACTERISTICS $T_C = 25^\circ C$

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|---|---------|---------|---------|-------|
| BV_{CES} | $I_C = 10$ mA | 65 | | | V |
| BV_{CEO} | $I_C = 50$ mA | 36 | | | V |
| BV_{EBO} | $I_E = 10$ mA | 4.0 | | | V |
| I_{CES} | $V_{CB} = 36$ V | | | 4.0 | mA |
| h_{FE} | $V_{CE} = 5.0$ V $I_C = 1.25$ A | 10 | | 100 | --- |
| C_{ob} | $V_{CB} = 28$ V $f = 1.0$ MHz | | 50 | | pF |
| P_G | $V_{CE} = 28$ V $P_{OUT} = 25$ W $f = 28$ MHz | | 21 | | dB |
| η | | | 45 | | % |