

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI BLV21** is Designed for Class C, 28 V High Band Applications up to 175 MHz.

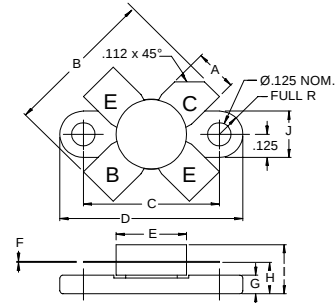
## FEATURES:

- Common Emitter
- $P_G = 10$  dB at 15 W/175 MHz
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

|               |                                             |
|---------------|---------------------------------------------|
| $I_C$         | 1.75 A                                      |
| $V_{CEO}$     | 35 V                                        |
| $V_{CES}$     | 65 V                                        |
| $V_{EBO}$     | 4.0 V                                       |
| $P_{DISS}$    | 36 W @ $T_C = 25^\circ\text{C}$             |
| $T_J$         | $-65^\circ\text{C}$ to $+200^\circ\text{C}$ |
| $T_{STG}$     | $-65^\circ\text{C}$ to $+150^\circ\text{C}$ |
| $\theta_{JC}$ | 4.8 $^\circ\text{C/W}$                      |

## PACKAGE STYLE .380 4L FLG



| DIM | MINIMUM<br>inches / mm | MAXIMUM<br>inches / mm |
|-----|------------------------|------------------------|
| A   | .220 / 5.59            | .230 / 5.84            |
| B   | .785 / 19.94           |                        |
| C   | .720 / 18.29           | .730 / 18.54           |
| D   | .970 / 24.64           | .980 / 24.89           |
| E   |                        | .385 / 9.78            |
| F   | .004 / 0.10            | .006 / 0.15            |
| G   | .085 / 2.16            | .105 / 2.67            |
| H   | .160 / 4.06            | .180 / 4.57            |
| I   |                        | .280 / 7.11            |
| J   | .240 / 6.10            | .255 / 6.48            |

## ORDER CODE: ASI10579

## CHARACTERISTICS $T_C = 25^\circ\text{C}$

| SYMBOL            | TEST CONDITIONS                                | MINIMUM  | TYPICAL | MAXIMUM | UNITS   |
|-------------------|------------------------------------------------|----------|---------|---------|---------|
| $BV_{CEO}$        | $I_C = 25$ mA                                  | 35       |         |         | V       |
| $BV_{CES}$        | $I_C = 5.0$ mA                                 | 65       |         |         | V       |
| $BV_{EBO}$        | $I_E = 10$ mA                                  | 4.0      |         |         | V       |
| $I_{CBO}$         | $V_{CB} = 30$ V                                |          |         | 1.0     | mA      |
| $h_{FE}$          | $V_{CE} = 5.0$ V $I_C = 200$ mA                | 5.0      |         | ---     | ---     |
| $C_{OB}$          | $V_{CB} = 30$ V $f = 1.0$ MHz                  |          |         | 50      | pF      |
| $P_G$<br>$\eta_C$ | $V_{CC} = 28$ V $P_{OUT} = 15$ W $f = 175$ MHz | 10<br>65 |         |         | dB<br>% |

# Mouser Electronics

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