

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI BLW85** is Designed for Class C Amplifier Applications in VHF Mobile Radios.

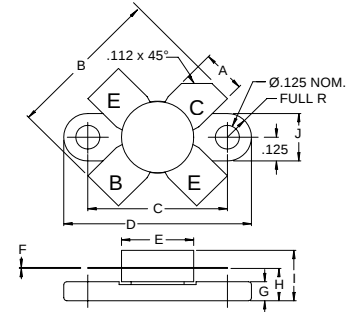
## FEATURES:

- $P_G = 9.5$  dB Typ. at 40 W /175 MHz
- $\eta_c = 60\%$  Typ. at 40 W /175 MHz
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

|               |                                             |
|---------------|---------------------------------------------|
| $I_C$         | 9.0 A                                       |
| $V_{CBO}$     | 36 V                                        |
| $V_{CEO}$     | 16 V                                        |
| $V_{EBO}$     | 4.0 V                                       |
| $P_{DISS}$    | 105 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 $+150^\circ\text{C}$ |
| $\theta_{JC}$ | 1.6 $^\circ\text{C/W}$                      |

## 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            |

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

| SYMBOL            | TEST CONDITIONS                                  | MINIMUM   | TYPICAL | MAXIMUM | UNITS   |
|-------------------|--------------------------------------------------|-----------|---------|---------|---------|
| $BV_{CBO}$        | $I_C = 50$ mA                                    | 36        |         |         | V       |
| $BV_{CES}$        | $I_C = 50$ mA                                    | 36        |         |         | V       |
| $BV_{CEO}$        | $I_C = 100$ mA                                   | 16        |         |         | V       |
| $BV_{EBO}$        | $I_E = 25$ mA                                    | 4.0       |         |         | V       |
| $I_{CES}$         | $V_{CE} = 18$ V                                  |           |         | 25.0    | mA      |
| $h_{FE}$          | $V_{CE} = 5.0$ V $I_C = 4.0$ A                   | 10        |         | 80      | ---     |
| $C_{ob}$          | $V_{CB} = 15$ V $f = 1.0$ MHz                    |           |         | 135     | pF      |
| $P_G$<br>$\eta_c$ | $V_{CC} = 12.5$ V $P_{OUT} = 45$ W $f = 175$ MHz | 4.5<br>75 |         |         | dB<br>% |

# AMEYA360

Components Supply Platform

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