# CBSL60B

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI CBSL60B** is Designed for

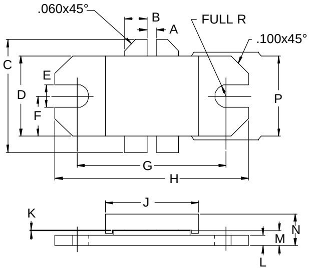
## FEATURES:

- Input Matching Network
- 
- ***Omnigold***™ Metalization System

## MAXIMUM RATINGS

| | |
|---|---|
| $I_C$ | 8.0 A |
| $V_{CBO}$ | 60 V |
| $V_{CEO}$ | 28 V |
| $V_{EBO}$ | 3.5 V |
| $P_{DISS}$ | 146 W @ $T_C$ = 25 °C |
| $T_J$ | -65 °C to +200 °C |
| $T_{STG}$ | -65 °C to +150 °C |
| $\theta_{JC}$ | 1.2 °C/W |

## PACKAGE STYLE .450 BAL FLG (A)



| DIM | MINIMUM<br>inches / mm | MAXIMUM<br>inches / mm |
|---|---|---|
| A | .055 / 1.40 | |
| B | .120 / 3.05 | .130 / 3.30 |
| C | | .785 / 19.94 |
| D | .455 / 11.56 | .465 / 11.81 |
| E | .120 / 3.05 | .130 / 3.30 |
| F | .230 / 5.84 | |
| G | .838 / 21.28 | .850 / 21.59 |
| H | 1.095 / 27.81 | 1.105 / 28.07 |
| J | .525 / 13.34 | .535 / 13.59 |
| K | .002 / 0.05 | .005 / 0.15 |
| L | .055 / 1.40 | .065 / 1.65 |
| M | .080 . 2.03 | .095 / 2.41 |
| N | | .195 / 4.95 |
| P | .445 / 11.30 | .455 / 11.56 |

**ORDER CODE: ASI10584**

## CHARACTERISTICS $T_C$ = 25 °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|---|---|---|---|---|---|
| $BV_{CBO}$ | $I_C$ = 100 mA | 60 | | | V |
| $BV_{CEO}$ | $I_C$ = 100 mA | 28 | | | V |
| $BV_{EBO}$ | $I_E$ = 20 mA | 3.5 | | | V |
| $I_{CEO}$ | $V_{CE}$ = 25 V | | | 30 | mA |
| $h_{FE}$ | $V_{CE}$ = 5.0 V $I_C$ =3.0 A | 25 | | 80 | --- |
| $P_G$ | $V_{CC}$ = 26 V $I_{CQ}$ = 2 X 200 mA f = 960 MHz<br>$P_{OUT}$ = 60 W | 8.5 | | | dB |
| VSRW | $V_{CC}$ = 26 V f = 960 MHz | 5:1 | | | --- |