

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI BLV33F** is Designed for Operation in Band III TV Transposers and Transmitter Amplifiers from 170 to 230 MHz.

## FEATURES:

- Gold Metalization
- Internal Input Matching
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

|               |                                 |
|---------------|---------------------------------|
| $I_C$         | 10 A                            |
| $V_{CB}$      | 60 V                            |
| $V_{CE}$      | 35 V                            |
| $P_{DISS}$    | 140 W @ $T_C = 25^\circ C$      |
| $T_J$         | $-65^\circ C$ to $+200^\circ C$ |
| $T_{STG}$     | $-65^\circ C$ to $+150^\circ C$ |
| $\theta_{JC}$ | $1.5^\circ C/W$                 |

| PACKAGE STYLE .500 6L FLG |                      |                      |
|---------------------------|----------------------|----------------------|
|                           | MINIMUM<br>Inches/mm | MAXIMUM<br>Inches/mm |
| A                         | .150/.3,43           | .160/.4,06           |
| B                         | .045/.114            |                      |
| C                         | .210/.5,33           | .220/.5,59           |
| D                         | .835/21.21           | .865/21.97           |
| E                         | .200/.5,08           | .210/.5,33           |
| F                         | .490/12.45           | .510/12.95           |
| G                         | .003/.0,08           | .007/.0,18           |
| H                         | .125/.3,18           |                      |
| I                         | .720/18.29           | .730/18.54           |
| J                         | .970/24.64           | .980/24.89           |
| K                         | .095/2.41            | .105/2.67            |
| L                         | .150/3.81            | .170/4.32            |
| M                         | .280/7.11            |                      |

1 = COLLECTOR      2 = BASE  
3 & 4 = EMITTER

**ORDER CODE: ASI10493**

## CHARACTERISTICS $T_C = 25^\circ C$

| SYMBOL     | TEST CONDITIONS  |                                      | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|------------------|--------------------------------------|---------|---------|---------|-------|
| $BV_{CEO}$ | $I_C = 50$ mA    |                                      | 35      |         |         | V     |
| $BV_{CER}$ | $I_C = 50$ mA    | $R_{BE} = 10 \Omega$                 | 60      |         |         | V     |
| $BV_{EBO}$ | $I_E = 10$ mA    |                                      | 4.0     |         |         | V     |
| $I_{CES}$  | $V_E = 28$ V     |                                      |         |         | 5       | mA    |
| $h_{FE}$   | $V_{CE} = 5.0$ V | $I_C = 1.0$ A                        | 10      |         | 100     | ---   |
| $C_{ob}$   | $V_{CB} = 28$ V  | $f = 1.0$ MHz                        |         |         | 80      | pF    |
| $G_{PE}$   | $V_{CE} = 25$ V  | $I_{CQ} = 3.2$ A                     | 13.5    | 14.5    |         | dB    |
| $IMD_3$    | $P_{REF} = 16$ W | Vision = -8 dB<br>Side Band = -16 dB |         |         | -55     | dBc   |