

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The ASI HF15-28S is Designed for

**FEATURES:**

- 
- 
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

|                         |                               |
|-------------------------|-------------------------------|
| <b>I<sub>C</sub></b>    | 4.0 A                         |
| <b>V<sub>CB0</sub></b>  | 65 V                          |
| <b>V<sub>CEO</sub></b>  | 35 V                          |
| <b>V<sub>EBO</sub></b>  | 4.0 V                         |
| <b>P<sub>DISS</sub></b> | 40 W @ T <sub>C</sub> = 25 °C |
| <b>T<sub>J</sub></b>    | -65 °C to +200 °C             |
| <b>T<sub>STG</sub></b>  | -65 °C to +150 °C             |
| <b>q<sub>JC</sub></b>   | 4.4 °C/W                      |

**PACKAGE STYLE .380 4L STUD**

| DIM | MINIMUM<br>inches / mm | MAXIMUM<br>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           |

**ORDER CODE: ASI10603**

**CHARACTERISTICS** T<sub>C</sub> = 25 °C

| SYMBOL                  | TEST CONDITIONS  | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|-------------------------|--|---------|---------|---------|-------|
| <b>BV<sub>CEO</sub></b> | I <sub>C</sub> = 200 mA  | 35      |         |         | V     |
| <b>BV<sub>CES</sub></b> | I <sub>C</sub> = 200 mA  | 65      |         |         | V     |
| <b>BV<sub>EBO</sub></b> | I <sub>E</sub> = 10 mA   | 4.0     |         |         | V     |
| <b>I<sub>CB0</sub></b>  | V <sub>CB</sub> = 30 V   |         |         | 2.0     | mA    |
| <b>h<sub>FE</sub></b>   | V <sub>CE</sub> = 5.0 V      I <sub>C</sub> = 200 mA                 | 5.0     |         | ---     | ---   |
| <b>C<sub>OB</sub></b>   | V <sub>CB</sub> = 30 V      f = 1.0 MHz                              |         |         | 50      | pF    |
| <b>G<sub>P</sub></b>    | V <sub>CE</sub> = 28 V      f = 150 MHz                              | 10      |         | ---     | dB    |
| <b>f<sub>T</sub></b>    | V <sub>CE</sub> = 10 V      I <sub>C</sub> = 200 mA      f = 100 MHz | 250     |         |         | MHz   |