

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

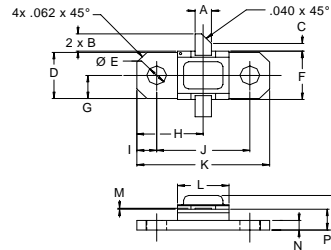
The **ASI AJT015** is Designed for 960 – 1215 MHz, JTIDS Applications.

FEATURES:

- Internal Input/Output Matching Network
- $P_G = 8.1$ dB at 15 W/ 1215 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|---------------|--------------------------|
| I_C | 1.8 A |
| V_{CC} | 32 V |
| P_{DISS} | 50 W @ $T_C \leq 100$ °C |
| T_J | -65 °C to +250 °C |
| T_{STG} | -65 °C to +200 °C |
| θ_{JC} | 3.0 °C/W |

PACKAGE STYLE .310 2L FLG


| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | .095 / 2.41 | .105 / 2.67 |
| B | .100 / 2.54 | .120 / 3.05 |
| C | .050 / 1.27 | |
| D | .286 / 7.26 | .306 / 7.77 |
| E | .110 / 2.79 | .130 / 3.30 |
| F | .306 / 7.77 | .318 / 8.08 |
| G | .148 / 3.76 | |
| H | .400 / 10.16 | |
| I | .119 / 3.02 | |
| J | .552 / 14.02 | .572 / 14.53 |
| K | .790 / 20.07 | .810 / 20.57 |
| L | .300 / 7.62 | .320 / 8.13 |
| M | .003 / 0.08 | .006 / 0.15 |
| N | .052 / 1.32 | .072 / 1.83 |
| P | .118 / 3.00 | .131 / 3.33 |
| R | | .230 / 5.84 |

ORDER CODE: ASI10545
CHARACTERISTICS $T_C = 25$ °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|---|---------|---------|---------|-------|
| BV_{CBO} | $I_C = 10$ mA | 55 | | | V |
| BV_{CER} | $I_C = 10$ mA $R_{BE} = 10$ Ω | 55 | | | V |
| BV_{EBO} | $I_E = 1$ mA | 3.5 | | | V |
| I_{CES} | $V_{CE} = 28$ V $V_{BE} = 0$ V | | | 2.0 | mA |
| h_{FE} | $V_{CE} = 5.0$ V $I_C = 500$ mA | 15 | | 150 | --- |
| P_G | $V_{CC} = 45$ V $P_{OUT} = 15$ W $f = 960 - 1215$ MHz | 8.1 | | | dB |
| η_C | | 40 | | | % |



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.