

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI MRF1000MB** is Designed for Class A, DME/TACAN Applications up to 1090 MHz.

**FEATURES:**

- Class A Operation
- $P_G = 10$  dB at 0.2 W/1090 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

|               |                   |
|---------------|-------------------|
| $I_C$         | 200 mA            |
| $V_{CE}$      | 20 V              |
| $P_{DISS}$    | 7.0 W             |
| $T_J$         | -65 °C to +200 °C |
| $T_{STG}$     | -65 °C to +150 °C |
| $\theta_{JC}$ | 25.0 °C/W         |

**PACKAGE STYLE .280 4L PILL**

| DIM | MINIMUM<br>inches / mm | MAXIMUM<br>inches / mm |
|-----|------------------------|------------------------|
| A   | .220 / 5.59            | .230 / 5.84            |
| B   |                        | 1.055 / 26.80          |
| C   | .275 / 6.99            | .285 / 7.24            |
| D   | .004 / 0.10            | .006 / 0.15            |
| E   | .050 / 1.27            | .060 / 1.52            |
| F   | .118 / 3.00            | .130 / 3.30            |

**CHARACTERISTICS**  $T_C = 25$  °C

| SYMBOL     | TEST CONDITIONS                                  | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|--|---------|---------|---------|-------|
| $BV_{CBO}$ | $I_C = 1.0$ mA                                   | 50      |         |         | V     |
| $BV_{CEO}$ | $I_C = 5.0$ mA                                   | 20      |         |         | V     |
| $BV_{EBO}$ | $I_E = 1.0$ mA                                   | 3.5     |         |         | V     |
| $I_{CES}$  | $V_{CE} = 28$ V                                  |         |         | 1.0     | mA    |
| $h_{FE}$   | $V_{CE} = 5.0$ V $I_C = 100$ mA                  | 15      |         | 120     | ---   |
| $P_G$      | $V_{CC} = 18$ V $P_{OUT} = 0.2$ W $f = 1090$ MHz | 10      |         |         | dB    |

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