

# NPN SILICON RF TRANSISTOR

**DESCRIPTION:**

The **ASI MRF581A** is Designed for  
High current low Power Amplifier  
Applications up to 1.0 GHz.

## FEATURES:

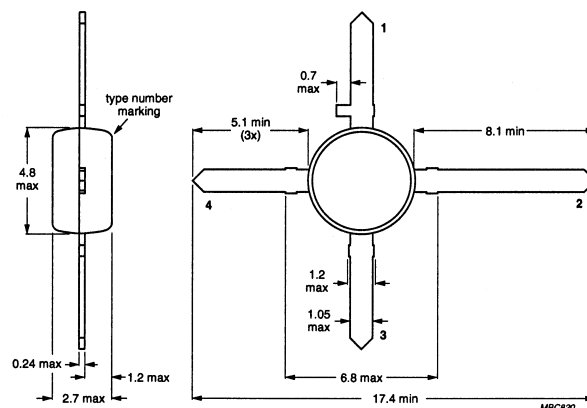
- Low Noise Figure
- Low Intermodulation Distortion
- High Gain
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

|                         |                                 |
|-------------------------|---------------------------------|
| <b>I<sub>C</sub></b>    | 200 mA                          |
| <b>V<sub>CBO</sub></b>  | 30 V                            |
| <b>V<sub>CEO</sub></b>  | 15 V                            |
| <b>V<sub>EBO</sub></b>  | 2.5 V                           |
| <b>P<sub>DISS</sub></b> | 1.25 W @ T <sub>C</sub> = 25 °C |
| <b>T<sub>J</sub></b>    | -65 °C to +150 °C               |
| <b>T<sub>STG</sub></b>  | -65 °C to +150 °C               |

## PACKAGE STYLE

Dim. Are in mm



Leads 1 and 3 = Emitter      2 = Collector      4 = Base

## CHARACTERISTICS $T_C = 25\text{ }^{\circ}\text{C}$

| SYMBOL     | TEST CONDITIONS                                          | MINIMUM | TYPICAL | MAXIMUM | UNITS         |
|------------|----------------------------------------------------------|---------|---------|---------|---------------|
| $BV_{CBO}$ | $I_C = 1.0 \text{ mA}$                                   | 30      |         |         | V             |
| $BV_{CEO}$ | $I_C = 5.0 \text{ mA}$                                   | 15      |         |         | V             |
| $BV_{EBO}$ | $I_E = 100 \text{ }\mu\text{A}$                          | 2.5     |         |         | V             |
| $I_{EBO}$  | $V_{EB} = 2.0 \text{ V}$                                 |         |         | 100     | $\mu\text{A}$ |
| $I_{CBO}$  | $V_{CB} = 15 \text{ V}$                                  |         |         | 100     | $\mu\text{A}$ |
| $h_{FE}$   | $V_{CE} = 5.0 \text{ V}$ $I_C = 50 \text{ mA}$           | 90      |         | 250     | ---           |
| $C_{cb}$   | $V_{CB} = 10 \text{ V}$ $f = 1.0 \text{ MHz}$            |         | 2.0     | 3.0     | pF            |
| $G_P$      | $V_{CC} = 10 \text{ V}$ $I_C = 50$ $f = 0.5 \text{ GHz}$ | 13      | 15.5    |         | dB            |

# AMEYA360

Components Supply Platform

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