

# NPN RF POWER TRANSISTOR

**DESCRIPTION:**

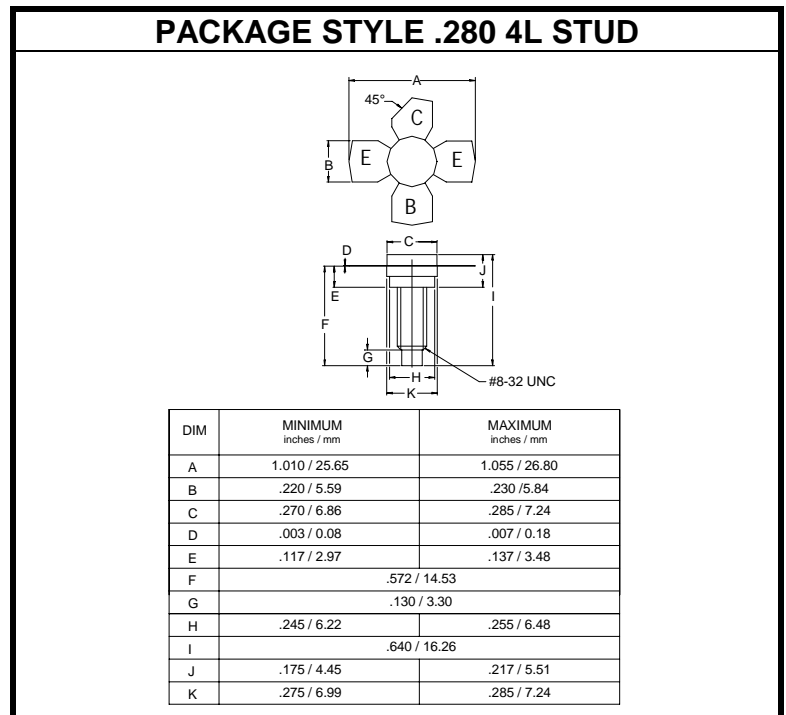
The **MRF5174** is a Common Emitter Device Designed for Class A, AB and C Amplifier Applications in the 225 to 400 MHz Band.

**FEATURES INCLUDE:**

- High Gain
- Gold Metallization
- Emitter Ballasting

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	0.5 A
<b>V<sub>CB0</sub></b>	40 V
<b>P<sub>DISS</sub></b>	8.75 W @ T <sub>C</sub> = 25 °C
<b>T<sub>J</sub></b>	-55 °C to +200 °C
<b>T<sub>STG</sub></b>	-55 °C to +200 °C
<b>θ<sub>JC</sub></b>	20 °C/W


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV<sub>CB0</sub></b>	I <sub>C</sub> = 1.0 mA	40			<b>V</b>
<b>BV<sub>CEO</sub></b>	I <sub>C</sub> = 1.0 mA	28			<b>V</b>
<b>BV<sub>EBO</sub></b>	I <sub>E</sub> = 1.0 mA	3.5			<b>V</b>
<b>I<sub>CB0</sub></b>	V <sub>CB</sub> = 28 V			500	<b>μA</b>
<b>h<sub>FE</sub></b>	V <sub>CE</sub> = 5.0 V      I <sub>C</sub> = 100 mA	20		120	<b>---</b>
<b>C<sub>OB</sub></b>	V <sub>CB</sub> = 28 V      f = 1.0 MHz			5.0	<b>pF</b>
<b>P<sub>G</sub></b>	V <sub>CE</sub> = 28 V      P <sub>OUT</sub> = 2.0 W      f = 400 MHz	12	13		<b>dB</b>
<b>η<sub>C</sub></b>		50			<b>%</b>

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