

# NPN RF POWER TRANSISTOR

**DESCRIPTION:**

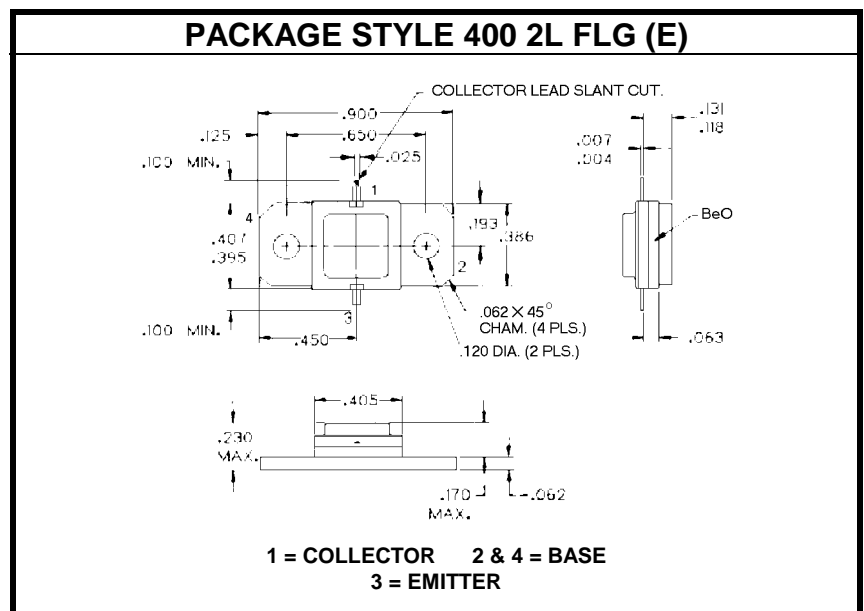
The **ASI MSC74012** is a Common Base Device Designed for CW Applications in the 1.5 - 1.7 GHz bands.

**FEATURES INCLUDE:**

- Input/Output Matching
- Gold Metallization
- Hermetically Sealed Package
- Emitter Ballasting

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	0.6 A
<b>V<sub>CB0</sub></b>	50 V
<b>P<sub>DISS</sub></b>	20 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>	9.0 °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> = 2.0 mA	50			V
<b>BV<sub>EBO</sub></b>	I <sub>C</sub> = 2.0 mA	3.0			V
<b>I<sub>CB0</sub></b>	V <sub>CB</sub> = 28 V			0.5	mA
<b>h<sub>FE</sub></b>	V <sub>CE</sub> = 5 V I <sub>C</sub> = 0.4 A	15		150	---
<b>P<sub>G</sub></b>	V <sub>CC</sub> = 28 V P <sub>IN</sub> = 0.85 W f = 1.5 - 1.7 GHz	8.5			dB
<b>η<sub>c</sub></b>	Pulse Width = 100 μS Duty Cycle = 10%	50	54		%