

NPN RF POWER TRANSISTOR

DESCRIPTION:

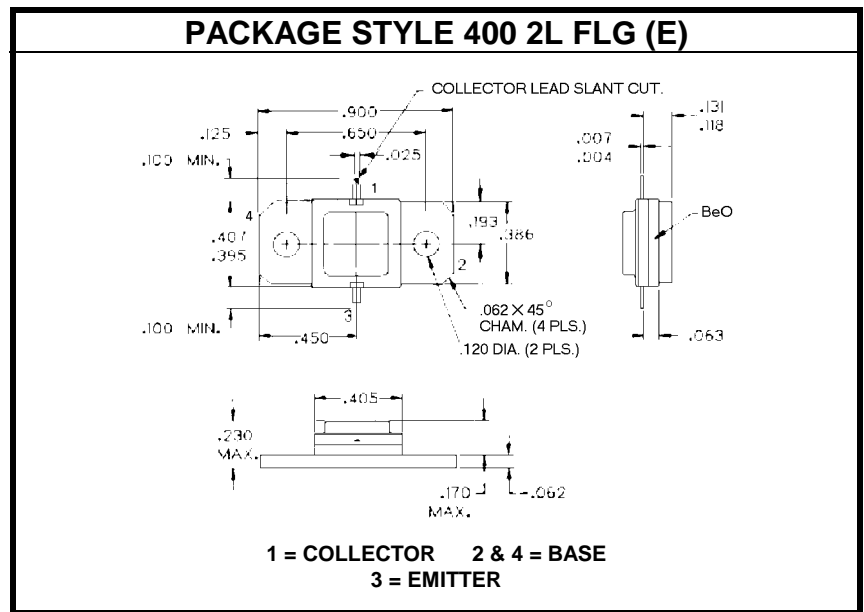
The **ASI MSC74012** is a Common Base Device Designed for CW Applications in the 1.5 - 1.7 GHz bands.

FEATURES INCLUDE:

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

MAXIMUM RATINGS

| | |
|-------------------------|-------------------------------|
| I_C | 0.6 A |
| V_{CB0} | 50 V |
| P_{DISS} | 20 W @ T _C = 25 °C |
| T_J | -55 °C to +200 °C |
| T_{STG} | -55 °C to +200 °C |
| θ_{JC} | 9.0 °C/W |


CHARACTERISTICS T_C = 25 °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|-------------------------|---|---------|---------|---------|-------|
| BV_{CB0} | I _C = 2.0 mA | 50 | | | V |
| BV_{EBO} | I _C = 2.0 mA | 3.0 | | | V |
| I_{CB0} | V _{CB} = 28 V | | | 0.5 | mA |
| h_{FE} | V _{CE} = 5 V I _C = 0.4 A | 15 | | 150 | --- |
| P_G | V _{CC} = 28 V P _{IN} = 0.85 W f = 1.5 - 1.7 GHz | 8.5 | | | dB |
| η_c | Pulse Width = 100 μS Duty Cycle = 10% | 50 | 54 | | % |