



NPN RF POWER TRANSISTOR

DESCRIPTION:

The **ASI MSC74013** is a Common Base Device Designed for Class C Amplifier Applications.

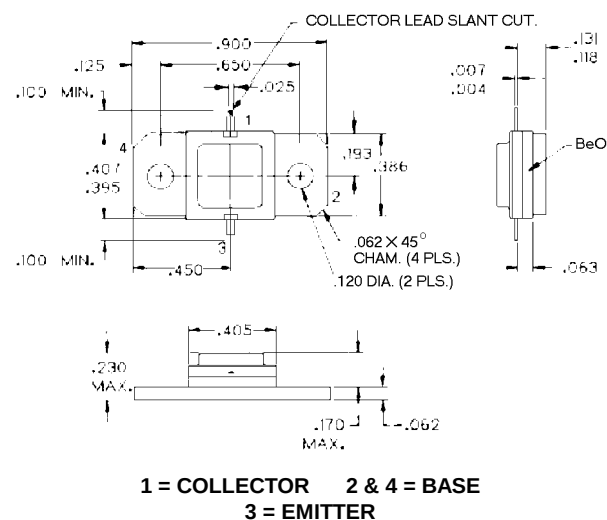
FEATURES INCLUDE:

- Input/Output Matching
- Gold Metallization
- Emitter Ballasting

MAXIMUM RATINGS

I_C	0.9 A
V_{CBO}	45 V
P_{DISS}	20 W @ $T_C = 25^\circ\text{C}$
T_J	-55°C to $+200^\circ\text{C}$
T_{STG}	-55°C to $+200^\circ\text{C}$
θ_{JC}	9.0°C/W

PACKAGE STYLE 400 2L FLG (E)



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 2.0\text{ mA}$	45			V
BV_{CER}	$I_C = 2.0\text{ mA}$	45			V
I_{CES}	$V_{CE} = 20\text{ V}$			20	μA
BV_{EBO}	$I_E = 1.0\text{ mA}$	3.5			V
h_{FE}	$V_{CE} = 5\text{ V}$ $I_C = 200\text{ mA}$	10			---
P_G η_C	$V_{CC} = 24\text{ V}$ $P_{OUT} = 9.0\text{ W}$ $f = 1600\text{ to }1800\text{ MHz}$ Pulse Width = $100\text{ }\mu\text{S}$ Duty Cycle = 10%	9.5	45		dB %