

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

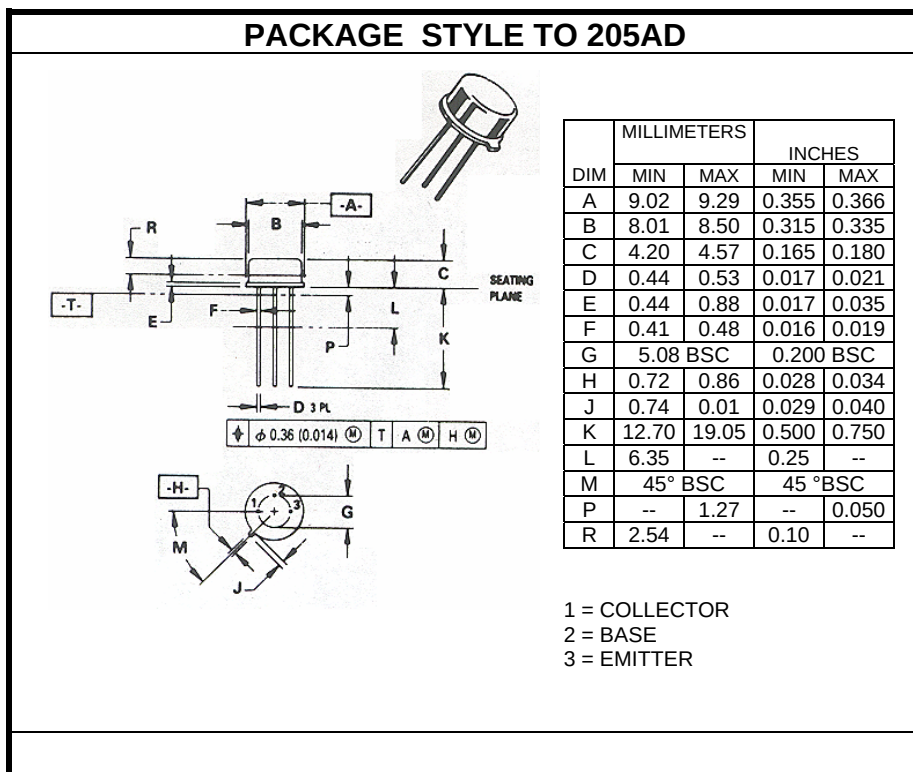
The **ASI MS1649** is Designed for UHF large signal, FM Land Mobile Applications.

FEATURES:

- Grounded Emitter
- $P_G = 9.5$ dB at 3.0 W/470 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	1.0 A
V_{CEO}	16 V
V_{CBO}	36 V
V_{EBO}	3.5 V
P_{DISS}	7.8 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+200^\circ\text{C}$
θ_{JC}	35 $^\circ\text{C/W}$



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 50$ mA	16			V
BV_{CES}	$I_C = 50$ mA	36			V
BV_{EBO}	$I_E = 1.0$ mA	3.5			V
I_{CES}	$V_{CE} = 12.5$ V			1.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 100$ mA	20		150	---
C_{OB}	$V_{CB} = 12.5$ V $f = 1.0$ MHz			12	pF
P_G	$V_{CC} = 12.5$ V $P_{OUT} = 3.0$ W $f = 470$ MHz	9.5			dB
η_C		50			%