

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

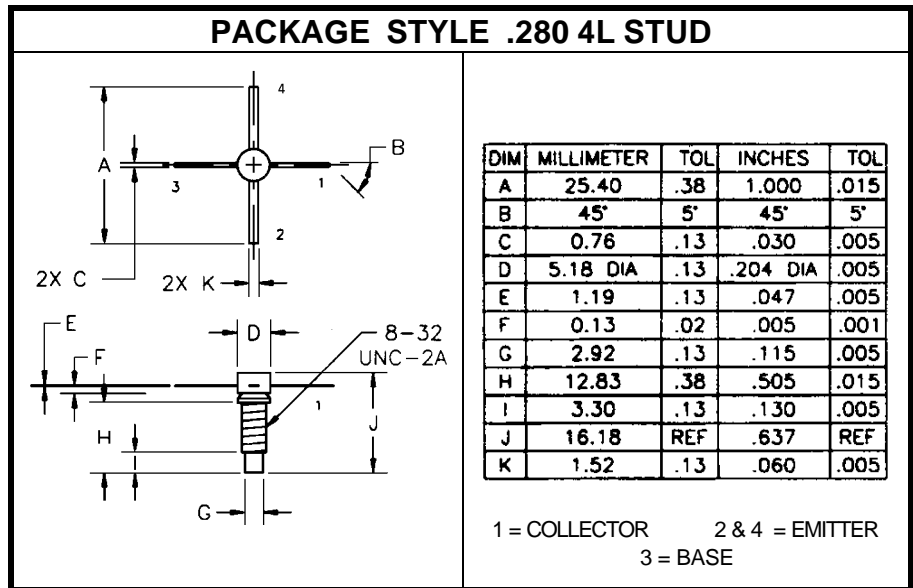
The **ASI LT3014** is a Common Emitter Device Designed for General Purpose Class A and AB Amplifier Applications up to 1.0 GHz.

FEATURES INCLUDE:

- Gold Metalization
- Emitter Ballasting
- High Gain

MAXIMUM RATINGS

I_C	300 mA
V_{CB}	45 V
P_{DISS}	5.0 W @ T _C = 25 °C
T_J	-55 °C to +200 °C
T_{STG}	-55 °C to +200 °C
q_{JC}	33.0 °C/W



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I _C = 10 mA	22			V
BV_{CES}	V _{BE} = 0 V I _C = 10 mA	50			V
BV_{EBO}	I _E = 1.0 mA	3.5			V
h_{FE}	V _{CE} = 5.0 V I _C = 100 mA	20		200	—
P_G	V _{CE} = 20 V I _{CQ} = 150 mA f = 1.0 GHz	3.0	3.5		GHz
P_{1dB}	V _{CE} = 20 V I _{CQ} = 150 mA f = 1.0 GHz	27	29		dBm
I_{P3}	V _{CE} = 20 V I _{CQ} = 150 mA f = 1.0 GHz P _{OUT} = 10 dBm (2 EQUAL TONES)		48		dBm
C_{ob}	V _{CB} = 28 V f = 1.0 MHz		2.0	3.0	pF
f_t	V _{CE} = 20 V I _{CQ} = 150 mA f = 1.0 GHz	3.0	3.5		GHz