

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

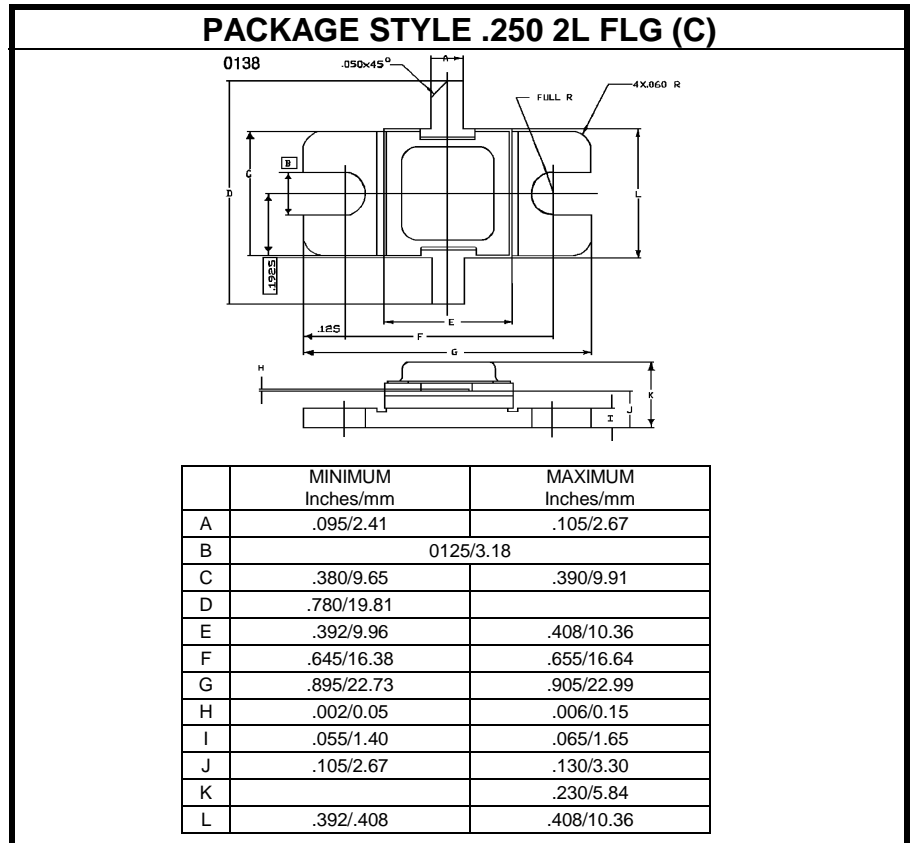
The **ASI MRAL2023-18** is a Common Base Device Designed for Class C Amplifier Applications in L-Band FM Microwave Links.

FEATURES INCLUDE:

- Gold Metalization
- Emitter Ballasting
- Input/Output Matching

MAXIMUM RATINGS

I_C	4.0 A
V_{CES}	42 V
P_{DISS}	70 W @ T _C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	2.5 °C/W


CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	I _C = 160 mA	42			V
BV_{EBO}	I _E = 2.0 mA	3.5			V
I_{CBO}	V _{CB} = 22 V			4.0	mA
h_{FE}	V _{CE} = 5.0 V I _C = 800 mA	10		100	---
P_G	V _{CE} = 22 V f = 2000 - 2300 MHz P _{OUT} = 18.0 W	7.0			dB
η_c		35			%