



MRF846

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **MRF846** is Designed for UHF Large-Signal, Common Base Amplifier Applications Up to 960 MHz.

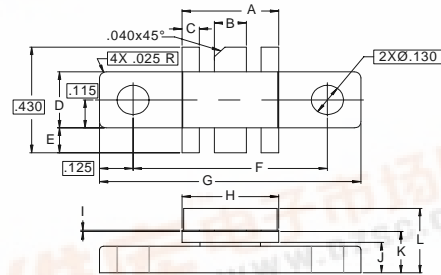
FEATURES INCLUDE:

- Input Matching Network
- Min Gain 4.3 dB
- Gold Metalization

MAXIMUM RATINGS

I_C	14 A
V_{CBO}	36 V
V_{CEO}	16 V
P_{DISS}	150 W @ $T_C = 25^\circ C$
T_J	$-55^\circ C$ to $+200^\circ C$
T_{STG}	$-55^\circ C$ to $+150^\circ C$
θ_{JC}	$1.17^\circ C/W$

PACKAGE STYLE .230 6L FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.355 / 9.02	.365 / 9.27
B	.115 / 2.92	.125 / 3.18
C	.075 / 1.91	.085 / 2.16
D	.225 / 5.72	.235 / 5.97
E	.090 / 2.29	.110 / 2.79
F	.720 / 18.29	.730 / 18.54
G	.970 / 24.64	.980 / 24.89
H	.355 / 9.02	.365 / 9.27
I	.004 / 0.10	.006 / 0.15
J	.120 / 3.05	.130 / 3.30
K	.160 / 4.06	.180 / 4.57
L	.230 / 5.84	.260 / 6.60

1 & 3 & 4 & 6 = BASE 2 = EMITTER
5 = COLLECTOR

CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	$I_C = 50$ mA	36			V
BV_{CEO}	$I_C = 50$ mA	16			V
BV_{EBO}	$I_E = 100$ mA	4.0			V
I_{CBO}	$V_{CE} = 15$ V			10	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 2.0$ mA	10		150	---
C_{OB}	$V_{CB} = 12.5$ V $f = 1.0$ MHz		85	100	pF
P_G	$V_{CE} = 12.5$ V $I_{CQ} = 50$ mA $P_{OUT} = 40$ W	4.3	5.2		dB
η_C	$f = 870$ MHz	50	55		%

