

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI MLN1037F** is Designed for Class A Linear Applications up to 1.0 GHz.

**FEATURES:**

- Class A Operation
- $P_G = 10$  dB at 5.0 W/1.0 GHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	10 A
$V_{CB}$	60 V
$V_{CE}$	35 V
$P_{DISS}$	140 W @ $T_C = 25^\circ\text{C}$
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	5.5 °C/W

**PACKAGE STYLE .250 2L FLG**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.028 / 0.71	.032 / 0.81
B	.740 / 18.80	
C	.245 / 6.22	.255 / 6.48
D	.128 / 3.25	.132 / 3.35
E		.125 / 3.18
F	.110 / 2.79	.117 / 2.97
G		.117 / 2.97
H	.560 / 14.22	.570 / 14.48
I	.790 / 20.07	.810 / 20.57
J	.225 / 5.72	.235 / 5.97
K	.165 / 4.19	.185 / 4.70
L	.003 / 0.08	.007 / 0.18
M	.058 / 1.47	.068 / 1.73
N	.119 / 3.02	.135 / 3.43
P	.149 / 3.78	.187 / 4.75

**ORDER CODE: ASI10628**

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 50$ mA	35			V
$BV_{CER}$	$I_C = 50$ mA $R_{BE} = 10 \Omega$	60			V
$BV_{EBO}$	$I_E = 10$ mA	4.0			V
$I_{CES}$	$V_E = 28$ V			5	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 1.0$ A	10		100	---
$C_{ob}$	$V_{CB} = 28$ V $f = 1.0$ MHz			15	pF
$P_{GE}$	$V_{CE} = 20$ V $I_{CQ} = 800$ mA $f = 1.0$ GHz $P_{OUT} = 5.0$ W	10			dB