

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI MLN1030SL** is Designed for Class A Linear Applications up to 1.0 GHz.

FEATURES:

- Class A Operation
- $P_G = 9.0$ dB at 1.0 W/1.0 GHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	0.250 A
V_{CB0}	40 V
V_{CEO}	28 V
V_{EBO}	3.5 V
P_{DISS}	7.0 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	20 °C/W

PACKAGE STYLE .280 4L PILL

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 / 1.52
F	.118 / 3.00	.130 / 3.30

ORDER CODE: ASI10624

CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CB0}	$I_C = 1.0$ mA	40			V
BV_{CEO}	$I_C = 1.0$ mA	28			V
BV_{EBO}	$I_E = 1.0$ mA	3.5			V
I_{CB0}	$V_{CB} = 24$ V			0.5	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 100$ mA	20		120	---
C_{OB}	$V_{CB} = 28$ V $f = 1.0$ MHz			5.0	pF
P_G	$V_{CE} = 20$ V $I_{CQ} = 150$ mA $f = 1.0$ GHz $P_{OUT} = 1.0$ W	9.0			dB