

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI 4000** is Designed for General Purpose Class C Power Amplifier Applications up to 4200 MHz.

**FEATURES:**

- $P_G = 5$  dB min. at 0.5 W / 4,000 MHz
- Hermetic Microstrip Package
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	0.15 A
$V_{CC}$	30 V
$P_{DISS}$	3.89 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+200^\circ C$
$T_{STG}$	$-65^\circ C$ to $+200^\circ C$
$\theta_{JC}$	45 $^\circ C/W$

**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: ASI10541**

**CHARACTERISTICS**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 1$ mA		45			V
$BV_{CER}$	$I_C = 5$ mA	$R_{BE} = 10 \Omega$	45			V
$BV_{EBO}$	$I_E = 10$ mA		3.5			V
$I_{CES}$	$V_{CB} = 28$ V				0.5	mA
$h_{FE}$	$V_{CE} = 5.0$ V	$I_C = 100$ mA	15		120	---
$C_{OB}$	$V_{CB} = 28$ V	$f = 1.0$ MHz			2.5	pF
$P_G$	$V_{CC} = 28$ V	$P_{OUT} = 0.5$ W	5.0			dB
$\eta_c$		$f = 4.0$ GHz	25			%