

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI ALR006** is Designed for 1200 – 1400 MHz, L-Band Applications.

FEATURES:

- Internal Input/Output Matching Network
- $P_G = 9.5$ dB at 6.0 W/ 1400 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	0.82 A
V_{CC}	32 V
P_{DISS}	16.7 W @ $T_C = 25$ °C
T_J	-65 °C to +250 °C
T_{STG}	-65 °C to +200 °C
θ_{JC}	9.0 °C/W

PACKAGE STYLE .310 2L FLG

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.095 / 2.41	.105 / 2.67
B	.100 / 2.54	.120 / 3.05
C	.050 / 1.27	
D	.286 / 7.26	.306 / 7.77
E	.110 / 2.79	.130 / 3.30
F	.306 / 7.77	.318 / 8.08
G	.148 / 3.76	
H	.400 / 10.16	
I	.119 / 3.02	
J	.552 / 14.02	.572 / 14.53
K	.790 / 20.07	.810 / 20.57
L	.300 / 7.62	.320 / 8.13
M	.003 / 0.08	.006 / 0.15
N	.052 / 1.32	.072 / 1.83
P	.118 / 3.00	.131 / 3.33
R		.230 / 5.84

ORDER CODE: ASI10510

CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 5$ mA	48			V
BV_{CER}	$I_C = 5$ mA $R_{BE} = 10$ Ω	48			V
BV_{EBO}	$I_E = 1$ mA	3.5			V
I_{CES}	$V_{CE} = 28$ V			1.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 500$ mA	30		300	---
P_G	$V_{CC} = 28$ V $P_{OUT} = 6.0$ W $f = 1.2$ to 1.4 GHz	9.5			dB
η_c		47			%