

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI HF150-50F** is Designed for

FEATURES:

- $P_G = 14$ dB min. at 150 W/30 MHz
- $IMD_3 = 100$ dBc max. at 150 W(PEP)
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	10 A
V_{CBO}	110 V
V_{CEO}	55 V
V_{EBO}	4.0 V
P_{DISS}	233 W @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+200^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
q_{JC}	0.75 $^\circ C/W$

PACKAGE STYLE .500 4L FLG

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.125 / 3.18	
C	.245 / 6.22	.255 / 6.48
D	.720 / 18.28	.730 / 18.54
E	.125 / 3.18	
F	.970 / 24.64	.980 / 24.89
G	.495 / 12.57	.505 / 12.83
H	.003 / 0.08	.007 / 0.18
I	.090 / 2.29	.110 / 2.79
J	.150 / 3.81	.175 / 4.45
K	.280 / 7.11	
L	.980 / 24.89	1.050 / 26.67

ORDER CODE: ASI10612

CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 100$ mA	110			V
BV_{CES}	$I_C = 100$ mA	110			V
BV_{CEO}	$I_C = 100$ mA	55			V
BV_{EBO}	$I_E = 10$ mA	4.0			V
I_{CEO}	$V_{CE} = 30$ V			5	mA
I_{CES}	$V_{CE} = 60$ V			5	mA
h_{FE}	$V_{CE} = 6$ V $I_C = 1.4$ A	18		43.5	---
C_{ob}	$V_{CB} = 50$ V $f = 1.0$ MHz			220	pF
G_P	$V_{CE} = 50$ V $I_{CQ} = 100$ mA $P_{OUT} = 150$ W (PEP)	14			dB
IMD_3				-30	dBc
h_c		37			%



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