

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI VLB10-12F** is Designed for 12.5 V, Large Signal Class C Amplifier Applications up to 50 MHz.

FEATURES:

- Common Emitter
- $P_G = 16$ dB at 10 W/50 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2.0 A
V_{CB0}	36 V
V_{CES}	36 V
V_{EBO}	4.0 V
P_{DISS}	35 W @ $T_C = 25^\circ\text{C}$
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	5.0 °C/W

PACKAGE STYLE .380 4L FLG

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

ORDER CODE: ASI10732

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 15$ mA	18			V
BV_{CES}	$I_C = 50$ mA	36			V
BV_{EBO}	$I_E = 2.5$ mA	4.0			V
I_{CB0}	$V_{CB} = 15$ V			5.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 250$ mA	5.0		200	---
C_{OB}	$V_{CB} = 15$ V $f = 1.0$ MHz			65	pF
P_G	$V_{CC} = 12.5$ V $P_{OUT} = 10$ W $f = 50$ MHz	16			dB
η_C		60			%