

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI BLV11** is Designed for Class C, 12.5 Volt operation in FM Amplifier Applications up to 250 MHz.

FEATURES INCLUDE:

- $P_G = 9.0$ dB Typical at 175 MHz
- Emitter Ballasting
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	3.0 A
V_{CE}	18 V
V_{CB}	36 V
P_{DISS}	37 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	4.6°C/W

PACKAGE STYLE .375 4L FLG

The image shows a technical drawing of a .375 4L FLG package. The top view is a diamond shape with a central circular feature. Dimensions include: A (lead length), B (lead width), C (base width), D (total width), E (base length), F (lead thickness), G (base thickness), H (base height), I (total height), and J (lead height). The drawing also indicates a 112° x 45° angle, a .0125 NDN feature, and a FULL R radius. The bottom view shows the package from the side, highlighting the base and lead structure.

	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

1 = Collector 2 = Base
3 & 4 = Emitter

ORDER CODE: ASI10492

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 20$ mA	36			V
BV_{CES}	$I_C = 50$ mA	36			V
BV_{CEO}	$I_C = 50$ mA	18			V
BV_{EBO}	$I_E = 5.0$ mA	4.0			V
I_{CBO}	$V_{CB} = 15$ V			2.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 250$ mA	5.0	50		---
C_{ob}	$V_{CB} = 12.5$ V $f = 1.0$ MHz		45		pF
P_G	$V_{CE} = 13.5$ V $P_{OUT} = 15$ W $f = 175$ MHz	8.0	9.0		dB
η_C		60	65		%

AMEYA360

Components Supply Platform

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