

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI BLX13C** is Designed for 28 V, Linear Amplifier, class A and AB in the HF and VHF bands.

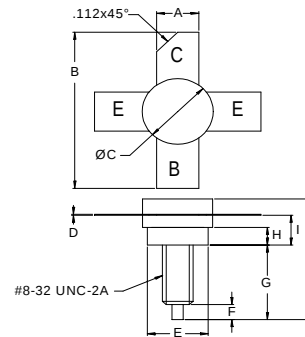
FEATURES:

- $P_G = 21$ dB Typical at 25 W/ 28 MHz
- **Omnigold™** Metallization System

MAXIMUM RATINGS

I_C	3.0 A
V_{CE}	36 V
V_{CB}	65 V
P_{DISS}	73 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}	2.39°C/W

PACKAGE STYLE .380" 4L STUD



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.980 / 24.89	
C	.370 / 9.40	.385 / 9.78
D	.004 / 0.10	.007 / 0.18
E	.320 / 8.13	.330 / 8.38
F	.100 / 2.54	.130 / 3.30
G	.450 / 11.43	.490 / 12.45
H	.090 / 2.29	.100 / 2.54
I	.155 / 3.94	.175 / 4.45
J		.750 / 19.05

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	$I_C = 10$ mA	65			V
BV_{CEO}	$I_C = 50$ mA	36			V
BV_{EBO}	$I_E = 10$ mA	4.0			V
I_{CES}	$V_{CB} = 36$ V			4.0	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 1.25$ A	10		100	---
C_{ob}	$V_{CB} = 28$ V $f = 1.0$ MHz		50		pF
P_G	$V_{CE} = 28$ V $P_{OUT} = 25$ W $f = 28$ MHz		21		dB
η			45		%