

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI BLU99** is Designed for use in UHF mobile radio transmitters applications up to 470 MHz

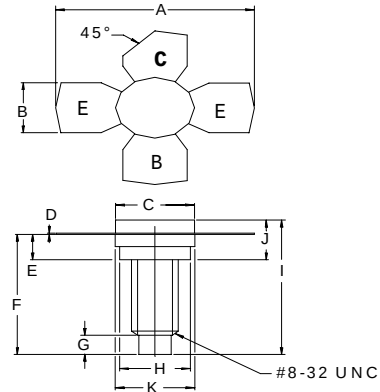
FEATURES:

- $P_G = 10.5$ dB Min. at 470 MHz
- **Omnigold™** Metallization System

MAXIMUM RATINGS

I_C	2.5 A
V_{CB}	36 V
P_{DISS}	17.5 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}	10 $^\circ\text{C/W}$

PACKAGE STYLE .280 4L STUD



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.055 / 26.80
B	.220 / 5.59	.230 / 5.84
C	.270 / 6.86	.285 / 7.24
D	.003 / 0.08	.007 / 0.18
E	.117 / 2.97	.137 / 3.48
F	.572 / 14.53	
G	.130 / 3.30	
H	.245 / 6.22	.255 / 6.48
I	.640 / 16.26	
J	.175 / 4.45	.217 / 5.51
K	.275 / 6.99	.285 / 7.24

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 20$ mA	16			V
BV_{CBO}	$I_C = 10$ mA	36			V
BV_{EBO}	$I_E = 1.0$ mA	3.0			V
h_{FE}	$V_{CE} = 10$ V $I_C = 600$ mA	25		100	---
C_C	$V_{CB} = 12.5$ V $f = 1.0$ MHz		7.5		pF
P_G η_C	$V_{CE} = 12.5$ $P_{out} = 5.0$ W $f = 470$ MHz	10.5 60			dB %