

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

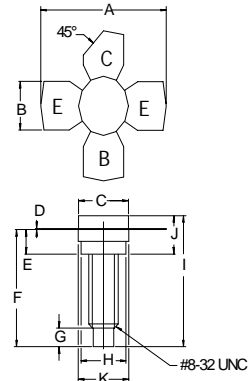
The **ASI BLW81** is Designed for Class A,B or C UHF & VHF Communications

FEATURES:

- $P_G = 6$ dB Typical at 470 MHz
- **Omnigold™** Metallization System

MAXIMUM RATINGS

I_C	2.5 A
V_{CB}	36 V
P_{DISS}	40 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	4.4 °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 $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 100$ Ma	17			V
BV_{CES}	$I_C = 25$ Ma $V_{BE} = 0$ V	36			V
BV_{EBO}	$I_E = 10$ Ma	4			V
I_{CES}	$V_{CE} = 17$ V			10	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 1.25$ A	10			---
C_{OB}	$V_{CB} = 12.5$ V $F = 1.0$ MHz		34		pF
P_{OUT}	$V_{CE} = 12.5$ V $P_{IN} = 2.5$ W $F = 470$ MHz	10.0	12.0		W
P_G		6.0	13.5		DB
η		60			%