

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

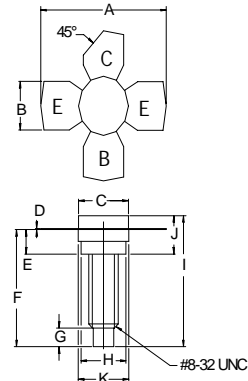
The **ASI BLW81** is Designed for Class A,B or C UHF & VHF Communications

**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
$\theta_{JC}$	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
$\eta$		60			%