

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

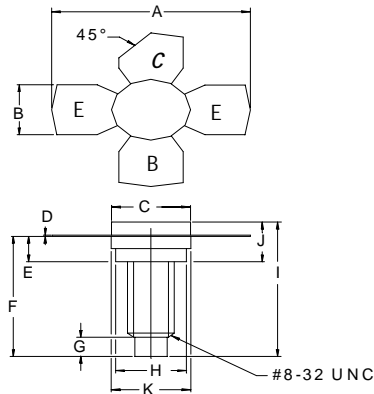
The **ASI BLV31** is Designed for use in VHF amplifiers

**FEATURES:**

- $P_G = 16.5$  dB Typical at 224 MHz
- **Omnigold™** Metallization System

**MAXIMUM RATINGS**

$I_C$	3A
$V_{CB}$	60 V
$P_{DISS}$	48 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+200^\circ C$
$T_{STG}$	$-65^\circ C$ to $+150^\circ C$
$\theta_{JC}$	$3.5^\circ C/W$

**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**  $T_C = 25^\circ C$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 100$ mA	30			V
$BV_{CES}$	$I_C = 25$ mA $V_{BE} = 0$ V	60			V
$BV_{EBO}$	$I_E = 10$ mA	4			V
$h_{FE}$	$V_{CE} = 25$ V $I_C = 800$ mA	15	75	120	---
$C_{OB}$	$V_{CB} = 25$ V $f = 1.0$ MHz		35		pF
$P_{OUT}$ $P_G$	$V_{CE} = 25$ V $I_C = 800$ mA $P_{IN} = 2.5$ W $F = 224$ MHz $T = 70^\circ C$	5.0 15	7.0* 16.5*		W dB

\* @  $25^\circ C$

# Mouser Electronics

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