

New Jersey Semi-Conductor Products, Inc.

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**BLY93H**

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# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

**BLY93H** is Designed for Class C, 28 V High Band Applications up to 175 MHz.

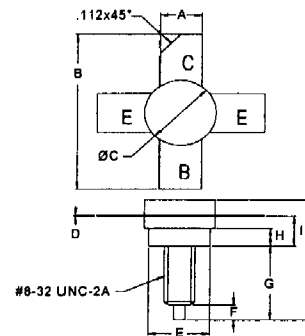
## FEATURES:

- Common Emitter
- $P_G = 9.0$  dB at 25 W/175 MHz
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

$I_C$	3.0 A
$V_{CBO}$	65 V
$V_{CEO}$	35 V
$V_{EBO}$	4.0 V
$P_{DISS}$	70 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+200^\circ C$
$T_{STG}$	$-65^\circ C$ to $+150^\circ C$
$\theta_{JC}$	2.5 $^\circ C/W$

## 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 $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 50$ mA	35			V
$BV_{CES}$	$I_C = 10$ mA	65			V
$BV_{EBO}$	$I_E = 10$ mA	4.0			V
$I_{CES}$	$V_{CE} = 36$ 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		45		pF
$G_P$	$V_{CE} = 28$ V $f = 175$ MHz	9.0			dB
$f_T$	$V_{CB} = 28$ V $I_E = 200$ mA $f = 100$ MHz		625		MHz



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