New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

BLY92C

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

BLY92C is designed for Class C FM amplifier applications up to 250 MHz.

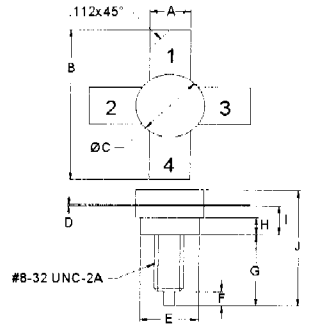
FEATURES:

- P_G = 11 dB typical at 175 MHz
- High VSWR capability
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_C	4.0 A
V_{CBO}	65 V
V_{CEO}	35 V
V_{EBO}	4.0 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 .380 4L STUD



DIM	MINIMUM	MAXIMUM
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

1 = Collector 2&3 = Emitter 4 = Base

CHARACTERISTICS T_C = 25°C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	I_C = 200 mA	65			V
BV_{CEO}	I_C = 200 mA	35			V
BV_{EBO}	I_E = 10 mA	4.0			V
I_{CBO}	V_{CB} = 30 V			2.0	mA
h_{FE}	V_{CE} = 5.0 V I_C = 200 mA	10		100	---
C_{ob}	V_{CB} = 30 V f = 1.0 MHz		40	50	pF
P_G	V_{CC} = 28 V P_{OUT} = 15 W f = 175 MHz	10	11		dB
η_C	P_{IN} = 1.0 W	50	60		%