

New Jersey Semi-Conductor Products, Inc.

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BLX92A

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NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

BLX92A is Designed for transmitting applications in class-A, B or C with a supply voltage up to 28 V

FEATURES:

- High Gain - 11.0 dB Min.
- *Omnigold™* Metallization System

MAXIMUM RATINGS

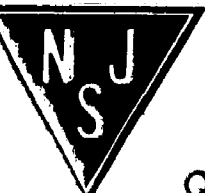
I_C	0.7 A
V_{CB}	65 V
P_{DISS}	6.0 W @ $T_C = 25^\circ C$
T_J	-65 to +200 °C
T_{STG}	-65 to +150 °C
θ_{JC}	9.8 °C/W

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_{CBO}	$I_C = 10 \text{ mA}$	65			V
BV_{CES}	$I_C = 10 \text{ mA}$	65			V
BV_{CEO}	$I_C = 25 \text{ mA}$	33			V
BV_{EBO}	$I_E = 1.0 \text{ mA}$	4.0			V
h_{FE}	$V_{CE} = 5.0 \text{ V}$ $I_C = 100 \text{ mA}$	10			---
f_T	$V_{CE} = 5.0 \text{ V}$ $I_C = 100 \text{ mA}$		1.2		GHz
C_c	$V_{CB} = 10 \text{ V}$ $f = 1.0 \text{ MHz}$		6.5		pF
C_e	$V_{EB} = 0 \text{ V}$ $f = 1.0 \text{ MHz}$		25		pF
P_G	$V_{CE} = 28 \text{ V}$ $P_{OUT} = 2.5 \text{ W}$ $f = 470 \text{ MHz}$	11			dB
η_c		60			%



NJ Semi-Conductors reserves the right to change test conditions, parameters limits and package dimensions without notice information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors