New Jersey Semi-Conductor Products, Inc.

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BLX39

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# NPN SILICON RF POWER TRANSISTOR

### **DESCRIPTION:**

**BLX39** is Designed for broadband amplifier operations up to 175 MHz.

#### FEATURES:

- P<sub>G</sub> = 7.6 dB min. at 40 W/175 MHz
- Emitter Resistors Ballasted
- Omnigold™ Metalization System

#### MAXIMUM RATINGS

l <sub>c</sub>	5.0 A				
V <sub>CB</sub>	65 V				
V <sub>CE</sub>	35 V				
P <sub>DISS</sub>	60 W @ T <sub>C</sub> = 25 °C				
٦	-65 °C to +200 °C				
T <sub>STG</sub>	-65 °C to +150 °C				
θյς	2.9 °C/W				

# 

	øc – B		
	#8-32 UNC-2A		
DIM	MINIMUM rt. nes /mm	MAXIMUM Inches/from	
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	
C	.100 / 2.54	.130/3.30	
F			
	.450 / 11.43	.490 / 12.45	
F	.450 / 11.43	.490 / 12.45 .100 / 2.54	
FG			

PACKAGE STYLE .380 STUD

С

.112x45°—, --- A---

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV</b> <sub>CEO</sub>	l <sub>c</sub> = 50 mA			35			v
BV <sub>CES</sub>	I <sub>C</sub> = 200 mA			65			v
BVEBO	I <sub>E</sub> = 10 mA		· · · · · · · · · · · · · · · · · · ·	4.0			V
ICES	V <sub>E</sub> = 28 V					5	mA
h <sub>FE</sub>	V <sub>CE</sub> = 5.0 V	I <sub>C</sub> = 1.0 A		10		100	
C <sub>ob</sub>	V <sub>CB</sub> = 28 V	······································	f = 1.0 MHz			65	pF
P <sub>G</sub>	)/ - <u>20</u> )/	D 7014		7.6			dB
ηc	V <sub>CE</sub> = 28 V	$P_{IN} = 7.0 W$	f = 175 MHz	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.

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