20 STERN AVE. TELEPHONE: (973) 376-2922 SPRINGFIELD, NEW JERSEY 07081 BLY92A (212) 227-6005 FAX: (973) 376-8960 NPN SILICON RF POWER TRANSISTOR

DAOKAOE

DESCRIPTION:

U.S.A.

BLY92A is an NPN power transistor designed for 138-175 MHz VHF communications. It utilizes emitter ballasting to provide high VSWR handling capability.

FEATURES:

- Common Emitter, 28 V operation
- P_G = 10 dB at 10W/175 MHz
- Omnigold[™] Metalization System
- High VSWR capability

MAXIMUM RATINGS

I _c	1.0 A
V_{CBO}	65 V
V_{CEO}	35 V
V_{EBO}	4.0 V
P _{DISS}	13.0 W
ТJ	-65 ° ⁰ C to +200 °C
T _{stg}	-65 °C to +150 °C
θυς	13.5 °C/W

CHARACTERISTICS To = 25°C

	112x45'- A B C ØC B) E]	
	#8-32 UNC-2A	G	
DIM		MAXIMUM nches/mm	
DIM	MIN IMU M	MAXIMUM nches/mm 23075.84	
j	MINIMUM we best from	inches / mm	
DIM	MIN IMU M mit bass / mm .220 / 5.59	inches / mm	
DIM A B	MIN IMU M mb bes/mm 220 / 5.59 980 / 24 89	inches / mm .230 / 5.84	
DIM A B C	MINIMUM white/mm 220/559 980/24.89 .370/9.40	.23075.84	
DIM A B C D	MINIMUM 10 bes/mm 220 / 5.59 980 / 24.89 .370 / 9.40 .004 / 0.10	nches / mm .230 / 5.84 .385 / 9.78 .007 / 0.18	
DIM A B C D E F	MIN IMU M 20 / 5 58 960 / 24.89 .370 / 9.40 .004 / 0.10 .320 / 8.13	nches / mm .230 / 5.84 	
DIM A B C D E	MINIMUM E. best (mm) 220 / 5.59 980 / 74.89 .370 / 9.40 .004 / 0.10 .320 / 8.13 .100 / 2.54	nches / mm .230 / 5.84 	
DIM A B C D E F G	MINIMUM #Lbr-//m 220/559 980/24.89 .370/9.40 .004/0.10 .320/8.13 .100/2.54 .450/11.43	nches / mm .230 / 5.84 	

CTVI F

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS	
ВV _{сво}	l _C = 200 mA			65			V
BV _{CES}	I _C = 200 mA			65			v
BV _{CEO}	I _C = 200 mA			35			v
BVEBO	l _E = 10 mA			4.0			v
I _{CBO}	V _{CB} = 30 V					1.0	mA
h _{FE}	V _{CE} = 5.0 V	l _C = 200 mA		5.0		200	
C _{ob}	V _{CB} = 30 V		f = 1.0 MHz			15	pF
P _G	V _{CC} = 28 V	P _{OUT} = 10 W	f = 175 MHz	10			dB
ηc	P _{IN} = 1.0 W				60		%



NJ Semi-Conductors reserves the right to change test conditions, parameter 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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