

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

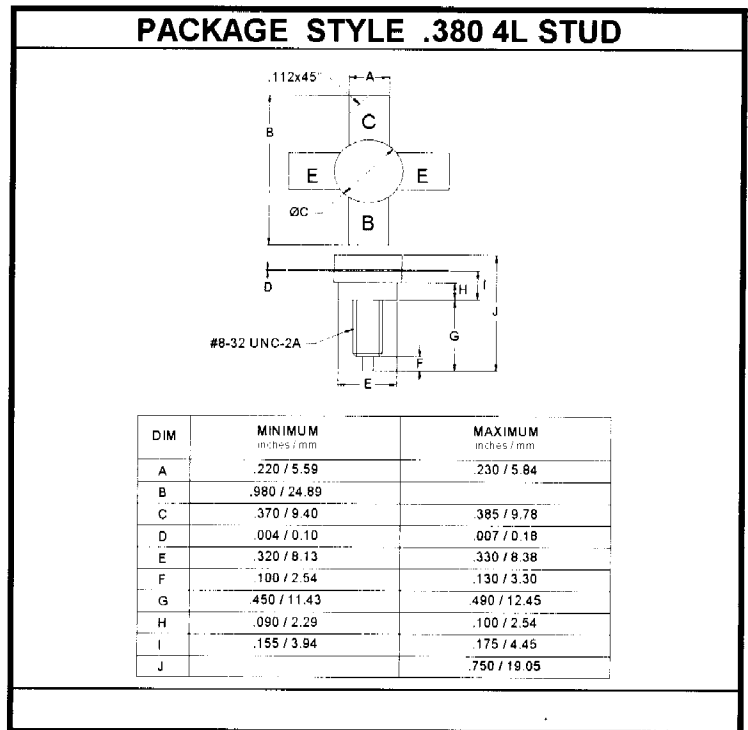
**BLY89C** is Designed primarily for VHF communications, up to 175 MHz.

## FEATURES:

- Common Emitter
- $P_G = 6.0$  dB at 25 W/175 MHz
- **Omnigold™** Metalization System

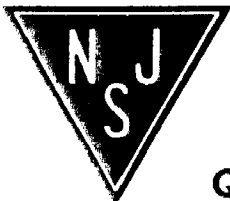
## MAXIMUM RATINGS

$I_C$	6.0 A
$V_{CB0}$	36 V
$V_{CEO}$	18 V
$V_{EBO}$	4.0 V
$P_{DISS}$	73 W @ $T_C = 25^\circ C$
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	2.4 °C/W



## CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 50$ mA		18			V
$BV_{CES}$	$I_C = 25$ mA		36			V
$BV_{EBO}$	$I_E = 10$ mA		4.0			V
$I_{CES}$	$V_{CE} = 18$ V				10	mA
$h_{FE}$	$V_{CE} = 5.0$ V	$I_C = 2.5$ A	10		80	---
$C_{OB}$	$V_{CB} = 15$ V	$f = 1.0$ MHz			130	pF
$P_G$	$V_{CE} = 12.5$ V	$P_{OUT} = 25$ W	6.0			dB
$\eta_c$		$f = 175$ MHz	70			%



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