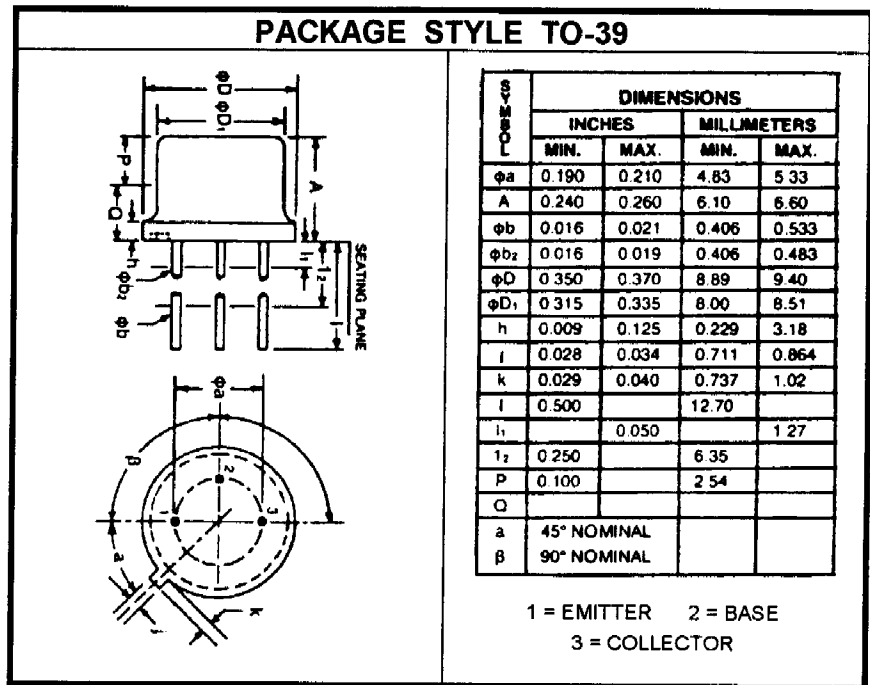


# NPN SILICON HIGH FREQUENCY TRANSISTOR

## 2N4428

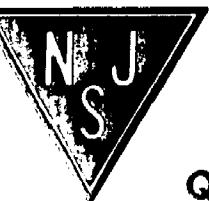
### MAXIMUM RATINGS

$I_C$	425 mA
$V_{CE}$	30 V
$P_{DISS}$	3.5 W @ $T_C = 25^\circ C$
$T_J$	$-65^\circ C$ to $+200^\circ C$
$T_{STG}$	$-65^\circ C$ to $+200^\circ C$
$\theta_{JC}$	50 $^\circ C/W$



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 20$ mA	35			V
$BV_{CER}$	$I_C = 20$ mA $R_{BE} = 10 \Omega$	55			V
$BV_{EBO}$	$I_C = 100 \mu A$	3.5			V
$I_{CEX}$	$V_{CE} = 55$ V $V_{BE} = -1.5$ V			1.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 50$ mA $I_C = 400$ mA	20 5.0		200	---
$f_t$	$V_{CE} = 20$ V $I_C = 50$ mA $f = 200$ MHz	700	1000		MHz
$C_{OB}$	$V_{CB} = 28$ V $f = 1.0$ MHz		1.5	3.5	pF
$P_{in}$ $\eta$	$V_{CC} = 28$ V $f = 200$ MHz $P_{out} = 750$ mW $R_s = 50 \Omega$	35		75	mW %



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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