



2N6199

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI 2N6199** is Designed for VHF Class C Power Amplifier Applications up to 250 MHz.

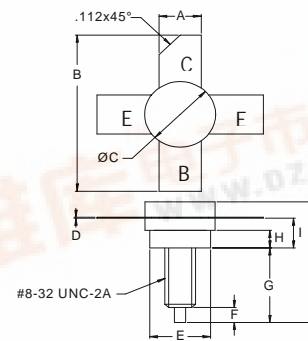
## FEATURES:

- $P_G = 10$  dB Typical at 25 W/175 MHz
- $\infty$  Load VSWR at Rated Conditions
- **Omnigold™** Metallization System

## MAXIMUM RATINGS

$I_C$	4.0 A
$V_{CB}$	65 V
$P_{DISS}$	40 W @ $T_C = 25^\circ C$
$T_J$	$-55^\circ C$ to $+200^\circ C$
$T_{STG}$	$-55^\circ C$ to $+150^\circ C$
$\theta_{JC}$	4.4 $^\circ C/W$

## PACKAGE STYLE .380" 4L STUD



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
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
F	.100 / 2.54	.130 / 3.30
G	.450 / 11.43	.490 / 12.45
H	.090 / 2.29	.100 / 2.54
I	.155 / 3.94	.175 / 4.45
J		.750 / 19.05

ORDER CODE: ASI10864

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 200$ mA	65			V
$BV_{CEO}$	$I_C = 200$ mA	35			V
$BV_{EBO}$	$I_E = 10$ mA	4.0			V
$I_{CBO}$	$V_{CB} = 30$ V			2.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 200$ mA	10			---
$C_{ob}$	$V_{CB} = 28$ V $f = 1.0$ MHz			50	pF
$P_G$	$V_{CE} = 28$ V $P_{OUT} = 25$ W $f = 175$ MHz	8.5	10		dB
$\eta_c$		50	60		%

