

## **GREAT AMERICAN ELECTROINCS**

## 2N6364

Silicon NPN power UHF transistor 2N6364 is designed for use in the 100-400Mhz frequency range for wideband power amplifier applications (aircraft and ship electronics, etc.) in severe load mismatch conditions.

Output Power:

75 Watt

Frequency Range:

100-400 Mhz

Voltage:

28 V

Package Type:

SOT-161 (6 Lead)

Class C

Common Emitter Configuration

**Emitter Ballasting** 

Aluminum Metalization

Electrical Characteristics (T<sub>CASE</sub>=40°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P <sub>out</sub>	$f_0 = 400 \text{ Mhz/V}_{\infty} = 28 \text{V/P}_{IN} = 18.75 \text{W}$	75			W
G <sub>p</sub>	$f_o = 400 \text{ Mhz/V}_{\infty} = 28 \text{V/P}_{out} = 75 \text{W}$	6			dB
$\lambda_{c}$	$f_o = 400 \text{ Mhz /V}_{cc} = 28 \text{V/P}_{out} = 75 \text{W}$	50	58		%

## ABSOLUTE MAXIMUM RATINGS $(T_{CASE} = 25^{\circ}C)$

SYMBOL	PARAMETERS	VALUE	UNIT
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
$V_{EBO}$	Emitter-Base Voltage	4	V
I <sub>c</sub>	Continuous Collector Current	10	Α
P <sub>c</sub>	Collector Power Dissipation	120*	W
$T_{i}$	Junction Temperature	160	°C
R <sub>th</sub> (j-c)	Junction-Case Thermal Resistance	1.0	°C/W

<sup>\*</sup>For Dynamic Operation, T<sub>CASE</sub> = 40°C