

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_{CASE}=40°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P _{out}	f _o = 400 Mhz/V _{cc} =28V/P _{IN} =18.75W	75			W
G _p	f _o = 400 Mhz/V _{cc} =28V/P _{out} =75W	6			dB
λ _c	f _o = 400 Mhz /V _{cc} =28V/P _{out} =75W	50	58		%

ABSOLUTE MAXIMUM RATINGS (T_{CASE} = 25°C)

SYMBOL	PARAMETERS	VALUE	UNIT
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	4	V
I _c	Continuous Collector Current	10	A
P _C	Collector Power Dissipation	120*	W
T _j	Junction Temperature	160	°C
R _{th(j-c)}	Junction-Case Thermal Resistance	1.0	°C/W

*For Dynamic Operation, T_{CASE} = 40°C