

2N6204

Silicon NPN power UHF transistor 2N6204 is designed primarily for communications transceiver equipment (Class C). Also used for auto-oscillator and frequency multiplier circuits.

Output Power: 25 Watt
 Frequency Range: 100-400 Mhz
 Voltage: 28 V
 Package Type: MT-72
 Common Emitter Configuration
 Emitter Ballasting
 Aluminum Metalization

Electrical Characteristics ($T_{CASE}=40^{\circ}C$)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{IN}=8.3W$	25			W
G_p	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{out}=25W$	5			dB
λ_c	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{out}=25W$	50	70		%

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CER}	Collector-Emitter Voltage $R_{EB} \leq 100 \Omega$	60	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Continuous Collector Current	2	A
P_C	Collector Power Dissipation	30*	W
T_j	Junction Temperature	160	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	4.4	$^{\circ}C/W$

*For Dynamic Operation, $T_{CASE} = 28^{\circ}C$