

GAE

GREAT AMERICAN ELECTROINCS

2N6203

Silicon NPN power UHF transistor 2N6203 is designed primarily for communications transceiver equipment (Class C). Also used for auto-oscillator and frequency multiplier circuits.

Output Power: 12 Watt
Frequency Range: 100-400 Mhz
Voltage: 28 V
Package Type: MT-72
Common Emitter Configuration
Emitter Ballasting
Aluminum Metalization

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{IN}=3\text{W}$	12			W
G_p	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{out}=12\text{W}$	6			dB
λ_c	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{out}=12\text{W}$	50	70		%

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

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	1	A
P_C	Collector Power Dissipation	15*	W
T_j	Junction Temperature	160	$^{\circ}\text{C}$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	8.8	$^{\circ}\text{C}/\text{W}$

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

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