

2N6362

Silicon NPN power UHF transistor 2N6362 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: 40 Watt
 Frequency Range: 100-400 Mhz
 Voltage: 28 V
 Package Type: SOT-161 (6 Lead)
 Common Emitter Configuration
 Emitter Ballasting
 Aluminum Metalization

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{IN}=7W$	40			W
G_p	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{out}=40W$	7.5			dB
λ_c	$f_o = 400 \text{ Mhz}/V_{cc}=28V/P_{out}=40W$	50	65	76	%

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Continuous Collector Current	6	A
P_C	Collector Power Dissipation	75*	W
T_j	Junction Temperature	160	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	1.6	$^{\circ}C/W$

*For Dynamic Operation, $T_{CASE} = 40^{\circ}C$