

GAE

GREAT AMERICAN ELECTROINCS

SG991AC

Silicon NPN high power UHF transistor SG991AC (Transistor Assembly) is designed for Class C common base push-pull wide band output amplifier applications in the 350-700 Mhz frequency range.

Output Power: 55 Watt
Frequency Range: 350-700 Mhz
Voltage: 28 V
Package Type: FO-57C (Module 4 lead)

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 700 \text{ Mhz}/V_{cc}=28V/P_{IN}=9.2W$	55			W
G_p	$f_o = 700\text{Mhz}/V_{cc}=28V/P_{out}=55W$	7.8	9		dB
λ_c	$f_o = 700 \text{ Mhz} / V_{cc}=28V/P_{out}=55W$	50	58	65	%

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Continuous Collector Current	7.5	A
P_c	Collector Power Dissipation	67.5*	W
T_j	Junction Temperature	175	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	2.0	$^{\circ}C/W$

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