GAE GREAT AMERICAN ELECTROINCS

2SC3218A

Silicon NPN high power UHF transistor 2SC3218A is designed for Class AB Push-Pull Linear amplifier applications in a common emitter configuration (specifically in operating TV transmitters).

Output Power: 50 Watt
Frequency Range: 470-860 Mhz
Voltage: 28 V
Package Type: RF Module 4 lead
Common Emitter Configuration
Diffused Emitter Resistors
Input Matched
Gold Metalization

Electrical Characteristics (T_{CASE}=40°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}*	f_o = 860 Mhz/V_{cc}=28V/I_C =2 X 0.15A	50			W
G_p	f_o = 860 Mhz/V_{cc}=28V/P_{out}=200W	6.2			dB
λ_c	f_o = 860 Mhz /V_{cc}=28V/P_{out}=200W	40			%
K_C	f_o = 860 Mhz /V_{cc}=28V/P_{out}=200W			1.25	times

*Class AB

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	55	V
V_{EBO}	Emitter-Base Voltage	3	V
I_c	Continuous Collector Current	15	A
P_C	Collector Power Dissipation	133**	W
T_j	Junction Temperature	200	°C
R_{th}(j-c)	Junction-Case Thermal Resistance	1.2	°C/W

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