GAE GREAT AMERICAN ELECTROINCS

2SC3217

Silicon NPN power UHF transistor 2SC3217 permits he design of a Class AB Push-Pull broadband amplifier having a good degree of linearity.

Output Power: 15 Watt
Frequency Range: 150-860 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 0.1A	15			W
G_p	f_o = 860 Mhz/V_{cc}=28V/P_{out}=15W	6.5			dB
λ_c	f_o = 860 Mhz /V_{cc}=28V/P_{out}=15W	35			%
K_C	f_o = 860 Mhz /V_{cc}=28V/P_{out}=15W			1.25	times

*Class AB

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{EBO}	Emitter-Base Voltage	3	V
I_c	Continuous Collector Current	4	A
P_C	Collector Power Dissipation	43**	W
T_j	Junction Temperature	200	°C
R_{th}(j-c)	Junction-Case Thermal Resistance	3.2	°C/W

**For Dynamic Operation, T_{CASE} = 60°C