

GAE

GREAT AMERICAN ELECTROINCS

C2M100-28A

Silicon NPN high power UHF transistor C2M100-28A is designed primarily for wide band large signal output amplifier stages of transmitter communication equipment in the 100-400Mhz frequency range.

Output Power: 100 Watt
Frequency Range: 100-400 Mhz
Voltage: 28 V
Package Type: RFMOD (6 Lead)
Class C
Common Emitter Configuration
Emitter Ballasting
Aluminum Metalization

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MA X	UNIT
P_{out}	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{IN}=25\text{W}$	100			W
G_p	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{out}=100\text{W}$	6			dB
λ_c	$f_o = 400 \text{ Mhz}/V_{cc}=28\text{V}/P_{out}=100\text{W}$	50	55		%

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Continuous Collector Current	13	A
P_C	Collector Power Dissipation	170*	W
T_j	Junction Temperature	160	$^{\circ}\text{C}$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	0.7	$^{\circ}\text{C}/\text{W}$

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

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