

GAE

GREAT AMERICAN ELECTROINCS

C25-12

Silicon NPN power VHF/UHF transistor C25-12 is designed for large signal amplifier and multiplier applications in portable and land mobile AM/FM equipment.

Output Power: 20 Watt
Frequency Range: 200-400 Mhz
Voltage: 12.6 V
Package Type: 8/32 Helicopter
Common Emitter Configuration
Individual Emitter Resistors
Aluminum Metalization

Electrical Characteristics ($T_{CASE}=65^{\circ}\text{C}$)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 320 \text{ Mhz}/V_{cc}=12.6\text{V}/P_{IN}=6.6\text{W}$	20			W
G_p	$f_o = 320 \text{ Mhz}/V_{cc}=12.6\text{V}/P_{out}=20\text{W}$	5			dB
λ_c	$f_o = 320 \text{ Mhz}/V_{cc}=12.6\text{V}/P_{out}=20\text{W}$	60	70		%

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

SYMBOL	PARAMETERS	VALUE	UNIT
V_{CER}	Collector-Emitter Voltage $R_{EB}\leq 100\Omega$	36	V
V_{EBO}	Emitter-Base Voltage	4	V
I_c	Continuous Collector Current	3.3	A
P_C	Collector Power Dissipation	25*	W
T_j	Junction Temperature	150	$^{\circ}\text{C}$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	4.4	$^{\circ}\text{C}/\text{W}$

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

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