

MRA0610-3

Silicon NPN high power UHF transistor MRA0610-3 is designed for class C common base wideband amplifier applications in the transmitters or radio relay systems.

Output power: 5 watt
Frequency range: 350-700 MHz
Voltage: 28 volt
Package type: FO 57C (Module 2 lead)

Input Matched

Common emitter configuration

Emitter Ballasting

Aluminum Metalization

ELECTRICAL CHARACTERISTICS (T_{CASE} = 40° C)

SYMBOL	TEST CONDITIONS	VALUE			UNIT
		MIN.	TYP.	MAX.	
P _{OUT}	f _o = 700 MHz / V _{cc} = 28 V / P _{IN} = 0.625W	5			W
G _p	f _o = 700 MHz / V _{cc} = 28 V / P _{OUT} = 5W	9			dB
λ _c	f _o = 700 MHz / V _{cc} = 28 V / P _{OUT} = 5W	40	45		%

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

Symbol	PARAMETERS	VALUE	UNIT
V _{CBO}	Collector - Base Voltage	50	V
V _{EBO}	Emitter - Base Voltage	4	V
I _C	Continuous Collector Current	1.5	A
P _C	Collector Power Dissipation	10*	W
T _j	Junction Temperature	175	°C
R _{th(j-c)}	Junction-Case Thermal Resistance	8.2	°C/W

* For Dynamic Operation, T_{CASE} = 90°C