

MRA0610-3

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

Output Power: 5 Watt
 Frequency Range: 350-700 Mhz
 Voltage: 28 V
 Package Type: FO-57C (Module 2 lead)
 Input Matched
 Common Emitter Configuration
 Emitter Ballasting
 Aluminum Metalization

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
P_{out}	$f_o = 700 \text{ Mhz} / V_{cc} = 28V / P_{in} = 0.625W$	5			W
G_p	$f_o = 700 \text{ Mhz} / V_{cc} = 28V / P_{out} = 5W$	9			dB
λ_c	$f_o = 700 \text{ Mhz} / V_{cc} = 28V / P_{out} = 5W$	40	45		%

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

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	$^{\circ}C$
$R_{th(j-c)}$	Junction-Case Thermal Resistance	8.2	$^{\circ}C/W$

*For Dynamic Operation $T_{CASE} = 90^{\circ}C$