

## 1014 - 12

12 Watt - 28 Volts, Class C Microwave 1000 - 1400 MHz

ABSOLUTE MAXIMUM RATINGS     Maximum Power Dissipation @ 25°C   39 Watts     Maximum Voltage and Current     BVces   Collector to Emitter Voltage     SVebo   Emitter to Base Voltage     Ic   Collector Current     Maximum Temperatures	The 1014 of Class C designed input pres	<b>RAL DESCRIPTION</b> -12 is a COMMON BASE transisto C, RF output power over the band 10 for Microwave Broadband Class C a matching and utilizes gold metalizati igh reliability and supreme ruggedne	CASE OUTLINE 55LT, STYLE 1	
Maximum Voltage and Current     BVces   Collector to Emitter Voltage     50 Volts     BVebo   Emitter to Base Voltage     1c   Collector Current				
BVcesCollector to Emitter Voltage50 VoltsBVeboEmitter to Base Voltage3.5 VoltsIcCollector Current5.0 A				
BVebo Emitter to Base Voltage 3.5 Volts   Ic Collector Current 5.0 A	Maximu	m Voltage and Current		
Ic Collector Current 5.0 A	BVces	Collector to Emitter Voltage	50 Volts	
	BVebo	Emitter to Base Voltage	3.5 Volts	
Maximum Temperatures	Ic	Collector Current	5.0 A	
	Maximu	m Temperatures		
Storage Temperature - 65 to +150°C	Storage Temperature		- 65 to +150°C	
Operating Junction Temperature +200°C	Operating	g Junction Temperature	+200°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η <sub>c</sub> VSWR <sub>1</sub>	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1000-1400  MHz Vcc = 28 Volts Pin = 2.5 Watts As Above F = 1.4  GHz, Pin = 2.5  W	12 6.8	40	2.5 30:1	Watt Watt dB %

BVcesCollector to Emitter BreakdownBVeboEmitter to Base BreakdownIcboCollector to Base Currenth_FECurrent GainCobOutput CapacitanceθjcThermal Resistance	Ic = 5 mA Ie = 5 mA Vcb = 28 Volts Vce = 5 V, Ic = 200mA F = 1 MHz, Vcb = 28 V	50 3.5 10	12.0	3.0 4.5	Volts Volts mA pF °C/W	
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