

## **UMIL 100A**

100 Watts, 28 Volts, Class AB Defcom 225 - 400 MHz

The UM transisto may be o	<b>ERAL DESCRIPTIO</b> IIL100A is a double input matched or specifically intended for use in t operated in Class AB or C. Gold 1 s ensure ruggedness and high relial	I. It 5550, Style 2	
ABS	OLUTE MAXIMUM	RATINGS	
	m Power Dissipation @ 25°C	270 Watts	
Maxim	um Voltage and Current		
BVces	8	65 Volts	
BVebo	Emitter to Base Voltage	4.0 Volts	
Ic	Collector Current	20 A	
Maxim	um Temperatures		
Storage Temperature - 65 to +150°		- 65 to +150°C	
Operatir	ng Junction Temperature	+150°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg ηc VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 400 MHz Vcc = 28 Volts	100 7.2	8.5 55	19 5:1	Watts Watts dB %

DY-h-	Emitten to Dave Dreakdorm	In 5 m A	1.0			Volts
BVebo	Emitter to Base Breakdown	Ie = $5 \text{ mA}$	4.0			volts
BVces	Collector to Emitter Breakdown	Ic = 100 mA	60			Volts
BVceo	Collector to Emitter Breakdown	Ie = $50 \text{ mA}$	31			Volts
BVcbo	Collector to Base Breakdown	Ic =100 mA	60			Volts
Icbo	Collector to Base Current	Vc = 30 Volts			50	mA
Cob	Output Capacitance	Vcb = 28 V, F = 1 MHz		120		pF
h <sub>FE</sub>	DC - Current Gain	Vce = 5 V, Ic = 1 A	10			
θјс	Thermal Resistance				0.7	°C/W

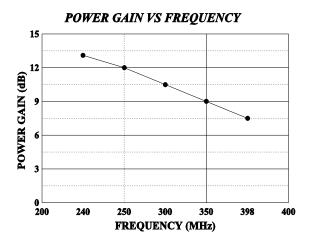
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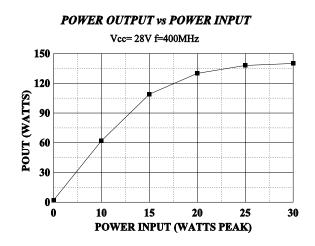
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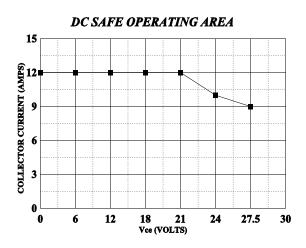
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