

UMIL 25

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

The UM specification operated	ERAL DESCRIPTIO IIL 25 is an input matched COMM ally intended for use in the 225-40 d in Class AB or C. Gold metalliza uggedness and high reliability.	CASE OUTLINE 55HV, Style 2	
Maximu	OLUTE MAXIMUM Im Power Dissipation @ 25°C	RATINGS 70 Watts	
	um Voltage and Current		
	Collector to Emitter Voltage	60 Volts	
	Emitter to Base Voltage	4.0 Volts	
Ic	Collector Current	3 A	
Maxim	um Temperatures		\bigcirc
Storage Temperature		- 65 to +150°C	
Operating Junction Temperature		+200°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	25 8.9	10 50	3.2 5:1	Watts Watts dB %

BVebo BVces BVceo Cob h _{FE}	Emitter to Base Breakdown Collector to Emitter Breakdown Collector to Emitter Breakdown Output Capacitance DC - Current Gain	Ie = 5 mA Ic = 50 mA Ie = 50 mA Vcb = $28 \text{ V}, \text{ F} = 1 \text{ MHz}$ Vce = $5 \text{ V}, \text{ Ic} = 500 \text{ A}$	4.0 65 33 10	22	27	Volts Volts Volts pF
θjc	Thermal Resistance	vec = 5 v, ic = 500 m	10		2.5	°C/W

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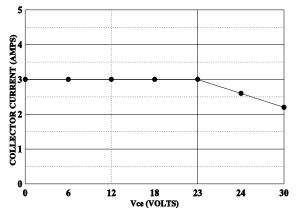
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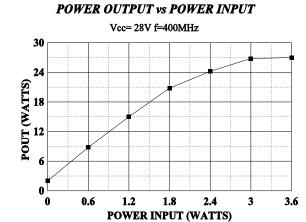
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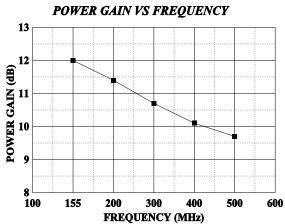


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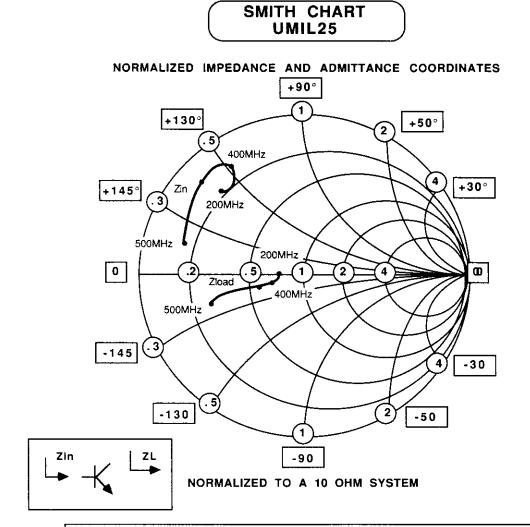
DC SAFE OPERATING AREA







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FREQUENCY	Zin R	JX	FREQUENCY MHz	Zloa R	d JX
200	1.6	+1.5	200	7.6	0.0
300	1.1	+4.0	300	7.5	-1.0
400	1.7	+5.1	400	6.0	-1.3
500	1.7	+4.2	500	3.0	-2.0
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