

UMIL 25

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

GENERAL DESCRIPTION The UMIL 25 is an input matched COMMO transistor specifically intended for use in th band. It may be operated in Class AB or C. silicon diffused resistors ensure ruggedness	CASE OUTLINE 55HV, Style 2	
ABSOLUTE MAXIMUM RATIN Maximum Power Dissipation @ 25°C Maximum Voltage and Current BVces Collector to Emitter Voltage	GS 70 Watts 60 Volts	
BVeboEmitter to Base VoltageIcCollector Current	4.0 Volts 3 A	
Maximum Temperatures		
Storage Temperature Operating Junction Temperature	- 65 to +150°C +200°C	

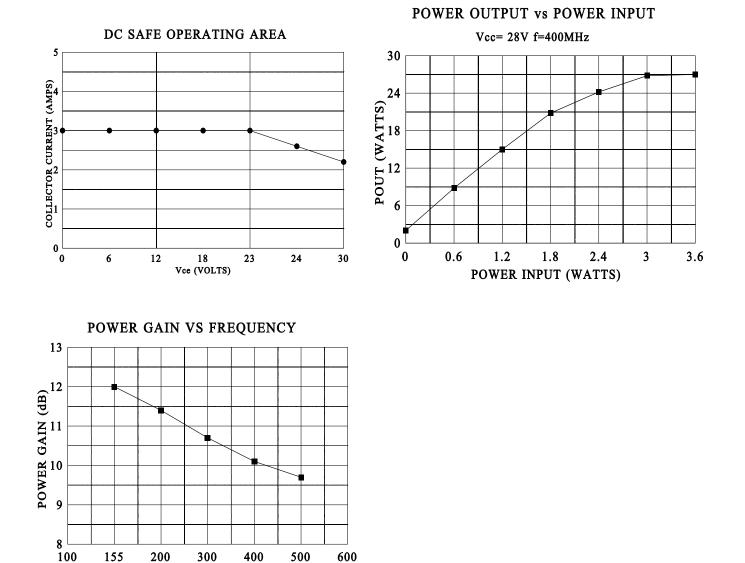
ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
P _{OUT}	Power Output	F = 400 MHz	25			W
P _{IN}	Power Input	$V_{cc} = 28$ Volts			3.2	W
P _G	Power Gain		8.9	10		dB
η_c	Collector Efficiency			50		%
VSWR	Load Mismatch Tolerance ¹				5:1	

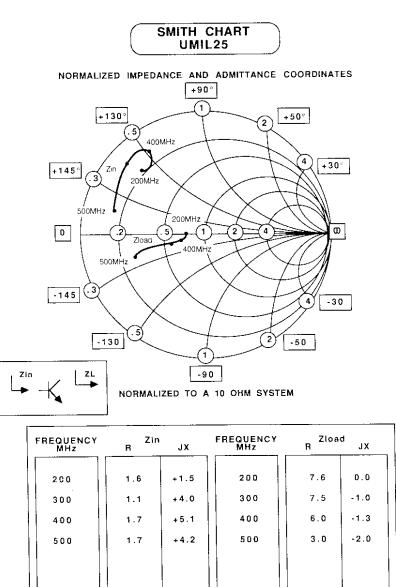
$\mathrm{BV}_{\mathrm{EBO}}$	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
BV _{CES}	Collector to Emitter Breakdown	Ic = 50 mA	65			Volts
BV _{CEO}	Collector to Emitter Breakdown	Ie = 50 mA	33			Volts
$h_{\rm FE}$	DC - Current Gain	Ic = 0.5 A, Vce = 5 V	10			
θjc^1	Thermal Resistance				2.5	°C/W
Cob	Output Capacitance	Vcb = 28 V, F = 1 MHz		22	27	pF
I _{EBO}	Emitter to Base Leakage	Veb = 2 V			2	mA
I _{CBO}	Collector to Base Leakage	Vcb = 20 V			2	mA

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FREQUENCY (MHz)



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