imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





UMIL 25

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

GENERAL DESCRIPTION The UMIL 25 is an input matched COMMON EMITTER broadband transistor specifically intended for use in the 225-400 MHz frequency band. It may be operated in Class AB or C. Gold metallization and silicon diffused resistors ensure ruggedness and high reliability.		CASE OUTLINE 55HV, Style 2
ABSOLUTE MAXIMUM RATIN Maximum Power Dissipation @ 25°C	GS 70 Watts	
Maximum Voltage and Current		
BVces Collector to Emitter Voltage	60 Volts	
BVebo Emitter to Base Voltage	4.0 Volts	
Ic Collector Current	3 A	
Maximum Temperatures		
Storage Temperature	- 65 to +150°C	
Operating Junction Temperature	+200°C	

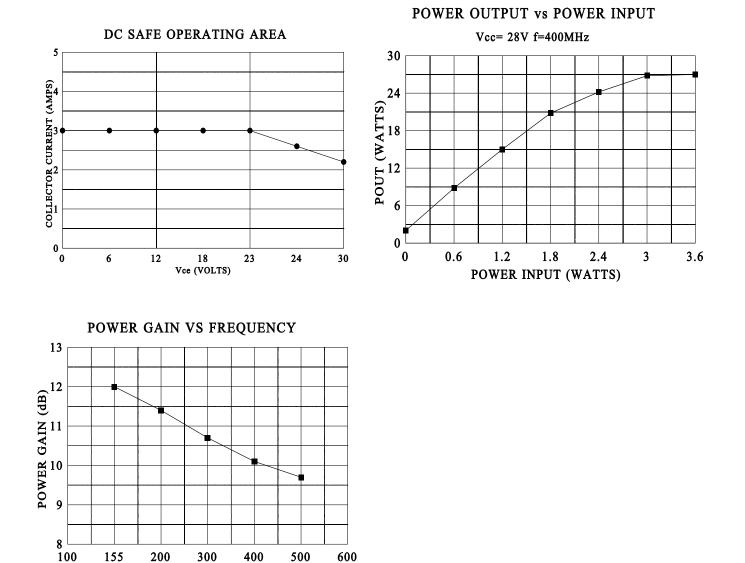
ELECTRICAL CHARACTERISTICS @ 25 °C

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	

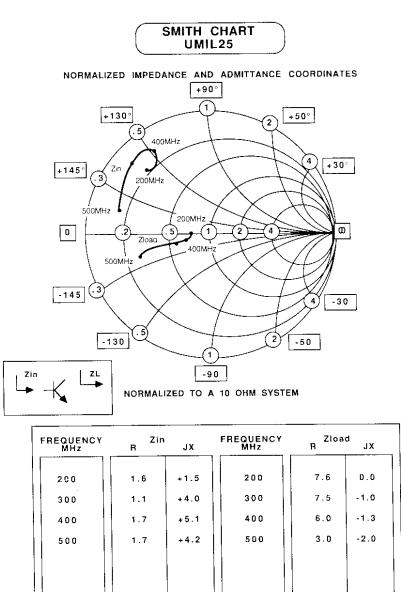
BV _{EBO}	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
BV _{CES}	Collector to Emitter Breakdown	Ic = 50 mA	65			Volts
BV _{CEO}	Collector to Emitter Breakdown	Ie = 50 mA	33			Volts
\mathbf{h}_{FE}	DC - Current Gain	Ic = 0.5 A, Vce = 5 V	10			
θjc ¹	Thermal Resistance				2.5	°C/W
Cob	Output Capacitance	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

Rev. A - Apr 2004

UMIL25



FREQUENCY (MHz)



UMIL25

