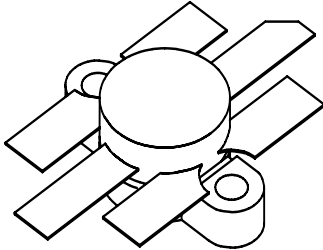




# UMIL 60

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

<p><b>GENERAL DESCRIPTION</b> The UMIL60 is a double 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.</p>	<p><b>CASE OUTLINE</b> <b>55HW, Style 2</b></p> 
<p><b>ABSOLUTE MAXIMUM RATINGS</b> Maximum Power Dissipation @ 25°C                      140 Watts</p> <p><b>Maximum Voltage and Current</b></p> <p>BVces    Collector to Emitter Voltage                      60 Volts BVebo    Emitter to Base Voltage                              4.0 Volts Ic         Collector Current    8.0 A</p> <p><b>Maximum Temperatures</b></p> <p>Storage Temperature    - 65 to +150°C Operating Junction Temperature                              +150°C</p>	

## ELECTRICAL CHARACTERISTICS @ 25 °C

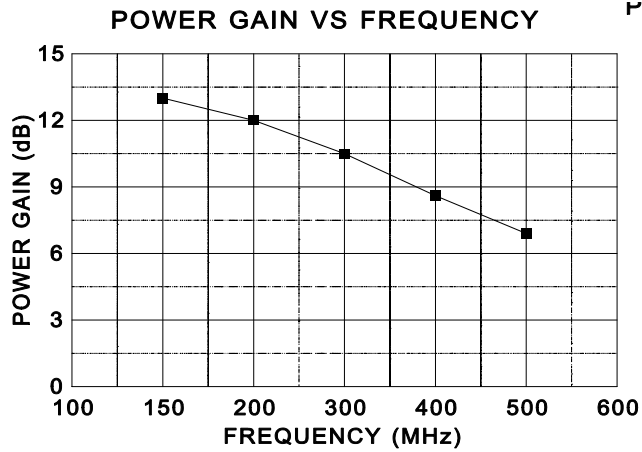
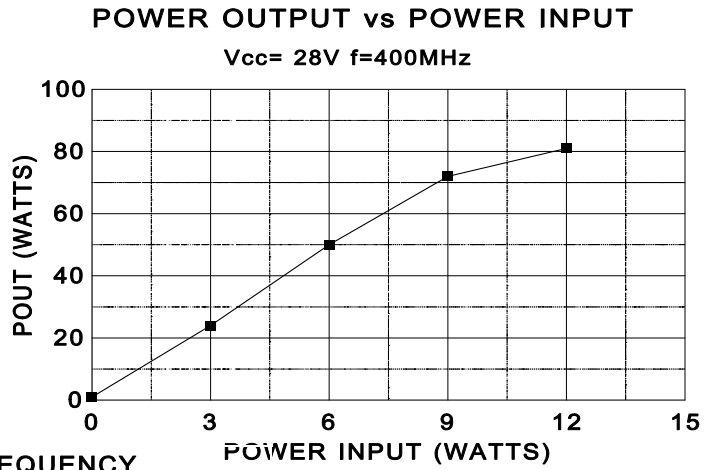
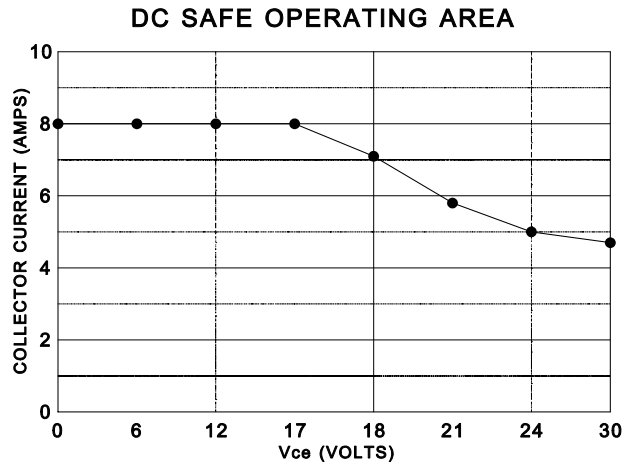
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
<b>Pout</b>	Power Output	F = 400 MHz	60			Watts
<b>Pin</b>	Power Input	Vcc = 28 Volts			8	Watts
<b>Pg</b>	Power Gain		8.8	9.0		dB
<b>ηc</b>	Efficiency			60		%
<b>VSWR</b>	Load Mismatch Tolerance				5:1	

<b>BVebo</b>	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
<b>BVces</b>	Collector to Emitter Breakdown	Ic = 50 mA	60			Volts
<b>BVceo</b>	Collector to Emitter Breakdown	Ie = 50 mA	33			Volts
<b>Cob</b>	Output Capacitance	Vcb = 28 V, F = 1 MHz			75	pF
<b>hFE</b>	DC - Current Gain	Vce = 5 V, Ic = 2 A	10			
<b>θjc</b>	Thermal Resistance				.65	°C/W

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# MIL60



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