

## *UTV080*

8 Watts, 26.5 Volts, Class A UHF Television - Band IV & V

The UT Watt Pe transisto Gold M	<b>ERAL DESCRIPTION</b> V 080 is a COMMON EMITTER tran eak, Class A, RF Output Power over th or includes double input prematching etalization and Diffused Ballasting are reme ruggedness.	CASE OUTLINE 55JV, STYLE 2	
	DLUTE MAXIMUM RATI	NGS 65 Watts	$\sim$
Maxim	um Voltage and Current		
BVces	Collector to Emitter Voltage	50 Volts	
BVceo	Collector to Emitter Voltage	28 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	$\chi \chi \chi / \Lambda$
Ic	Collector Current	2.5 Amps	
Maxim	um Temperatures		•
Storage Temperature		- 65 to + 150°C	
Operating Junction Temperature		+ 200°C	
Storage	Temperature		

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg IMD <sup>1</sup> VSWR <sub>1</sub>	Power Out - Pk Sync Power Input Power Gain Intermodulation Distortion Load Mismatch Tolerance	F = 470 - 860  MHz Vcc = 26.5 Volts Ic = 1.7 Amps Pref = 8 Watts F = 860 MHz	8 9	10	1.0 -58 3:1	Watts Watts dB dB

LVceo <sup>2</sup>	Collector to Emitter Breakdown	Ic = 60 mA	28		Volts
<b>BVces<sup>2</sup></b>	Collector to Base Breakdown	Ic = 20 mA	50		Volts
<b>BVebo<sup>2</sup></b>	Emitter to Base Breakdown	Ie = 5 mA	3.5		Volts
h <sub>FE</sub> <sup>2</sup> Cob <sup>2</sup>	Current Gain	Vce = 5 V, 500 mA	10		
Cob <sup>2</sup>	Output Capacitance	Vcb = 26 V, F = 1 MHz			pF
өјс	Thermal Resistance	$Tc = 25^{\circ}C$		2.5	°C/W

Note 1: F1=860 MHz, F2=863.5 MHz, F3=864.5 Mhz

European test method, Vision = -8dB, Sideband= -16dB, Sound = -7 dB 2: Per side

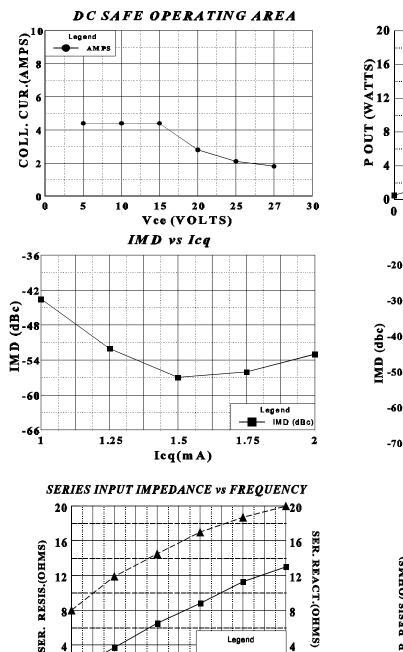
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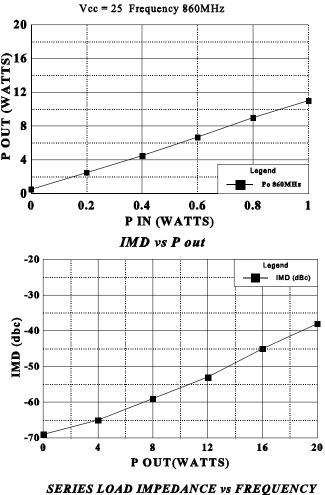
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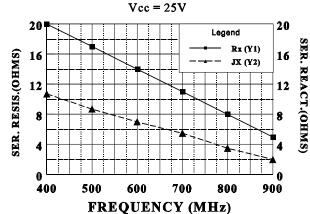
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## **POWER OUTPUT vs POWER INPUT**





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8

0

900

Legend

800

Rx (Y1) JX (Y2)

Å

0

400

500

600

**FREQUENCY (MHz)** 

700

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