



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!



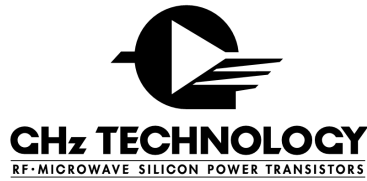
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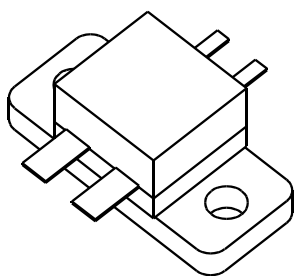
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UTV080

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

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| <p>GENERAL DESCRIPTION The UTV 080 is a COMMON EMITTER transistor capable of providing 8 Watt Peak, Class A, RF Output Power over the band 470 - 860 MHz. The transistor includes double input prematching for full broadband capability. Gold Metalization and Diffused Ballasting are used to provide high reliability and supreme ruggedness.</p> | <p>CASE OUTLINE 55JV, STYLE 2</p>  |
| <p>ABSOLUTE MAXIMUM RATINGS</p> <p>Maximum Power Dissipation @ 25°C 65 Watts</p> <p>Maximum Voltage and Current</p> <p>BVces Collector to Emitter Voltage 50 Volts BVceo Collector to Emitter Voltage 28 Volts BVebo Emitter to Base Voltage 3.5 Volts Ic Collector Current 2.5 Amps</p> <p>Maximum Temperatures</p> <p>Storage Temperature - 65 to + 150°C Operating Junction Temperature + 200°C</p> | |

ELECTRICAL CHARACTERISTICS @ 25 °C

| SYMBOL | CHARACTERISTICS | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-------------------------|----------------------------|-------------------|-----|-----|-----|-------|
| Pout | Power Out - Pk Sync | F = 470 - 860 MHz | 8 | | | Watts |
| Pin | Power Input | Vcc = 26.5 Volts | | | 1.0 | Watts |
| Pg | Power Gain | Ic = 1.7 Amps | 9 | 10 | | dB |
| IMD¹ | Intermodulation Distortion | Pref = 8 Watts | | | -58 | dB |
| VSWR₁ | Load Mismatch Tolerance | F = 860 MHz | | | 3:1 | |

| | | | | | | |
|-----------------------------------|--------------------------------|-----------------------|-----|--|-----|-------|
| LVceo² | Collector to Emitter Breakdown | Ic = 60 mA | 28 | | | Volts |
| BVces² | Collector to Base Breakdown | Ic = 20 mA | 50 | | | Volts |
| BVebo² | Emitter to Base Breakdown | Ie = 5 mA | 3.5 | | | Volts |
| h_{FE}² | Current Gain | Vce = 5 V, 500 mA | 10 | | | |
| Cob² | Output Capacitance | Vcb = 26 V, F = 1 MHz | | | | pF |
| θjc | Thermal Resistance | Tc = 25°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

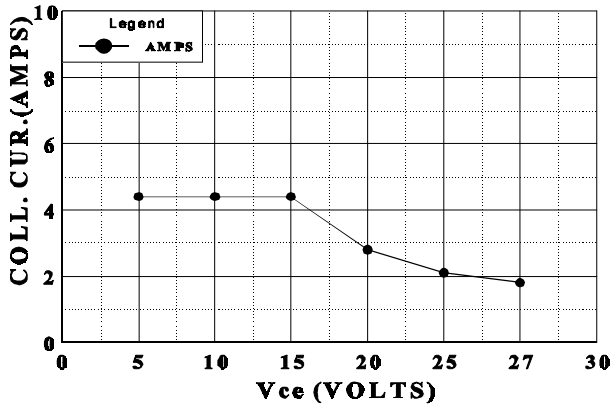
2: Per side

Initial Issue June, 1994

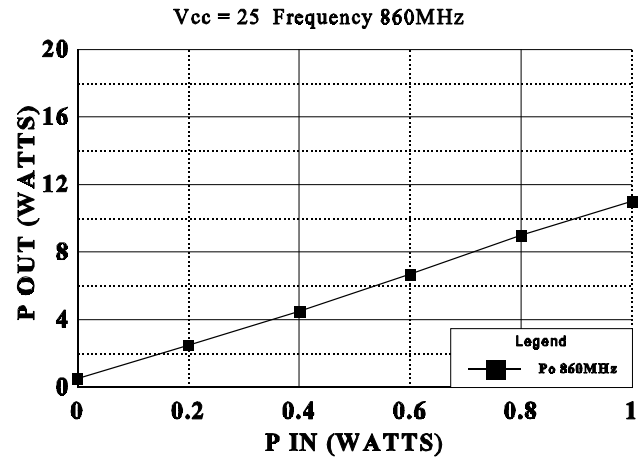
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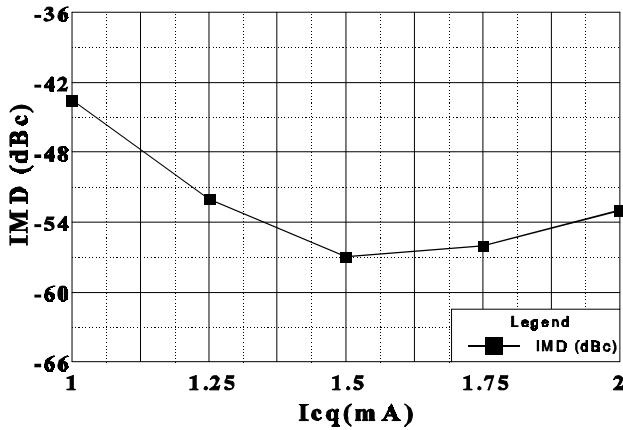
DC SAFE OPERATING AREA



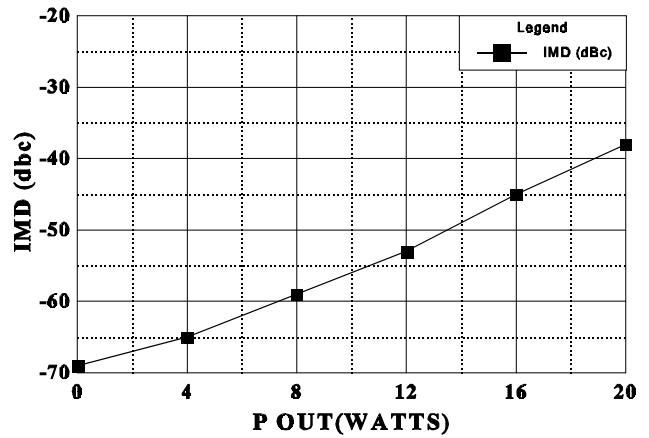
POWER OUTPUT vs POWER INPUT



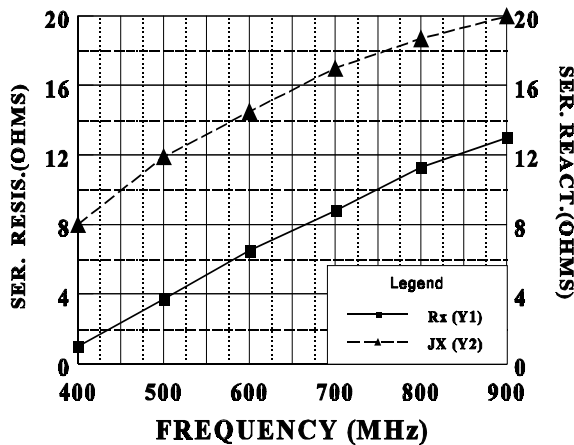
IMD vs Icq



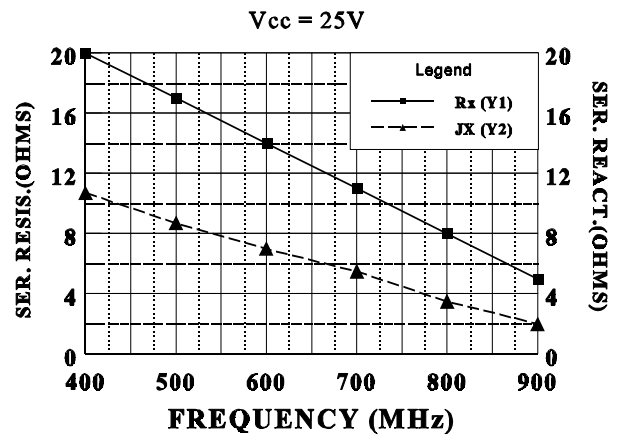
IMD vs P out



SERIES INPUT IMPEDANCE vs FREQUENCY



SERIES LOAD IMPEDANCE vs FREQUENCY



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