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UTV040

4 Watts, 25 Volts, Class A UHF Television - Band IV & V

GENERAL DESCRIPTION

The UTV 040 is a COMMON EMITTER transistor capable of providing 4 Watt Peak, Class A, RF Output Power over the band 470 - 860 MHz. Gold Metalization and Diffused Ballasting are used to provide high reliability and supreme ruggedness.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 25 Watts

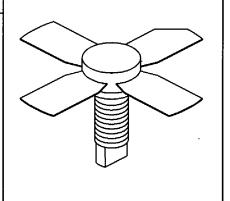
Maximum Voltage and Current

BVcesCollector to Emitter Voltage45 VoltsBVceoCollector to Emitter Voltage25 VoltsBVeboEmitter to Base Voltage4.0 VoltsIcCollector Current2.5 Amps

Maximum Temperatures

Storage Temperature $-65 \text{ to } + 150^{\circ}\text{C}$ Operating Junction Temperature $+200^{\circ}\text{C}$

CASE OUTLINE 55FT, STYLE 2



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
Pout Pin Pg IMD¹ VSWR₁	Power Out - Pk Sync Power Input Power Gain Intermodulation Distortion Load Mismatch Tolerance	F = 470 - 860 MHz Vcc = 25 Volts Ic = 850 mA Pref = 4.0 Watts F = 860 MHz	4.0	9.0 -60	0.65	Watts Watts dB dB			

LVceo BVces BVebo	Collector to Emitter Breakdown Collector to Base Breakdown Emitter to Base Breakdown Current Gain	Ic = 20 mA Ic = 20 mA Ie = 1 mA Vce = 5 V, 500 mA	25 45 4.0	17	100	Volts Volts Volts
Cob	Output Capacitance	Vcb = 25 V, F = 1 MHz	10			рF
θјс	Thermal Resistance	$Tc = 25^{\circ}C$			7.0	°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

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