$\propto N_{\varepsilon u} I_{\varepsilon \tau 1 \varepsilon y} S_{\varepsilon m i-C o n d u c t o r} \mathfrak{P}_{\text {roduct }}, I_{n c}$.
20 STERN AVE.
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## UTV020

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


## ELECTRICALCHARACTERISTICS@25 ${ }^{\circ} \mathrm{C}$

| SYMBOL | CHARACTERISTICS | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| Pout | Power Out - Pk Sync | $\mathrm{F}=470-860 \mathrm{MHz}$ | 2.0 |  |  | Watts |
| Pin | Power Input | Vic $=25 \mathrm{Volts}$ |  |  | 0.2 | Watts |
| Pg | Power Gain | Ic $=410 \mathrm{~mA}$ |  | 12 |  | dB |
| IND $^{\mathbf{1}}$ | Intermodulation Distortion | Pref $=2.0 \mathrm{Watts}$ |  | -60 |  | dB |
| VSWR $_{1}$ | Load Mismatch Tolerance | $\mathrm{F}=860 \mathrm{MHz}$ |  |  | $30: 1$ |  |


| LVceo | Collector to Emitter Breakdown | Ic $=40 \mathrm{~mA}$ | 26 |  |  | Volts |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| BVces | Collector to Base Breakdown | Ic $=10 \mathrm{~mA}$ | 45 |  |  | Volts |
| BVebo | Emitter to Base Breakdown | Ie $=1 \mathrm{~mA}$ | 4.0 |  |  | Volts |
| $\mathbf{h}_{\mathbf{F E}}$ | Current Gain | Vce $=5 \mathrm{~V}, 250 \mathrm{~mA}$ | 10 |  |  |  |
| Cob | Output Capacitance | Vcb $=20 \mathrm{~V}, \mathrm{~F}=1 \mathrm{MHz}$ |  | 8.0 | pF |  |
| Oj | Thermal Resistance | Tc $=25^{\circ} \mathrm{C}$ |  |  | 10 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |

Note 1: $\mathrm{F} 1=860 \mathrm{MHz}, \mathrm{F} 2=863.5 \mathrm{MHz}, \mathrm{F} 3=864.5 \mathrm{Mhz}$
European test method, Vision $=-8 \mathrm{~dB}$, Sideband $=-16 \mathrm{~dB}$, Sound $=-7 \mathrm{~dB}$ notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

