



UTV005

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI UTV005** is Designed for Class A, UHF Television – Band IV and V Applications up to 860 MHz.

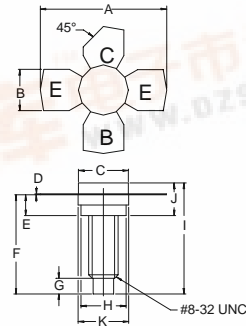
FEATURES:

- Common Emitter
- $P_G = 11$ dB at 0.5 W/470-860 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	0.75 A
V_{CEO}	24 V
V_{CES}	45 V
V_{EBO}	3.5 V
P_{DISS}	8.0 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	22 °C/W

PACKAGE STYLE .280 4L STUD



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.055 / 26.80
B	.220 / 5.59	.230 / 5.84
C	.270 / 6.86	.285 / 7.24
D	.003 / 0.08	.007 / 0.18
E	.117 / 2.97	.137 / 3.48
F	.572 / 14.53	
G	.130 / 3.30	
H	.245 / 6.22	.255 / 6.48
I	.640 / 16.26	
J	.175 / 4.45	.217 / 5.51
K	.275 / 6.99	.285 / 7.24

CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 20$ mA	24			V
BV_{CES}	$I_C = 10$ mA	45			V
BV_{EBO}	$I_E = 1.0$ mA	3.5			V
h_{FE}	$V_{CE} = 5.0$ V $I_C = 100$ mA	20	---	---	---
C_{ob}	$V_{CB} = 20$ V $f = 1.0$ MHz		5.0		pF
P_G IMD^3 V_{SWR}_1	$V_{CC} = 20$ V $P_{OUT} = 0.5$ W $I_C = 220$ mA $f = 470-860$ MHz		11 -60		dB dB ---
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