

# NPN RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI TPV394** is a Common Emitter Device Designed for Class A High Linearity Amplifier Applications in TV Band II-III Transmitters.

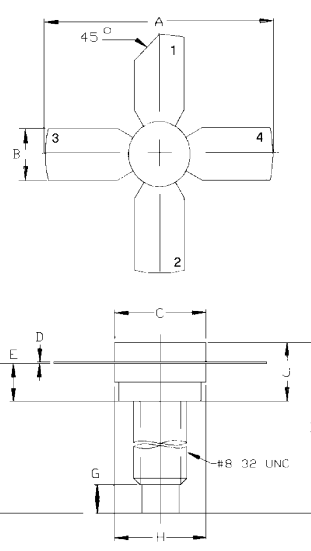
**FEATURES INCLUDE:**

- Gold Metallization
- Emitter Ballasting
- High Gain

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	4.0 A
<b>V<sub>CES</sub></b>	45 V
<b>P<sub>DISS</sub></b>	50 W
<b>T<sub>J</sub></b>	-55 °C to +200 °C
<b>T<sub>STG</sub></b>	-55 °C to +200 °C
<b>θ<sub>JC</sub></b>	3.5 °C/W

**PACKAGE STYLE 280 4L STUD**



	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	.5/2/14.53	
G	.130/3.30	
H	.275/6.99	.285/7.24
I	.640/16.26	
J	.175/4.45	.21/75.51

**1 = COLLECTOR      2 = BASE**  
**3 & 4 = EMITTER**

**CHARACTERISTICS**  $T_C = 25\text{ }^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV<sub>CES</sub></b>	$I_C = 40\text{ mA}$			45			<b>V</b>
<b>BV<sub>CEO</sub></b>	$I_C = 40\text{ mA}$			28			<b>V</b>
<b>BV<sub>EBO</sub></b>	$I_E = 5.0\text{ mA}$			4.0			<b>V</b>
<b>h<sub>FE</sub></b>	$V_{CE} = 5.0\text{ V}$	$I_C = 1000\text{ mA}$		10		100	<b>---</b>
<b>C<sub>OB</sub></b>	$V_{CB} = 28\text{ V}$	$f = 1.0\text{ MHz}$			34.0		<b>pF</b>
<b>P<sub>G</sub></b>	$V_{CE} = 28\text{ V}$	$I_C = 1000\text{ mA}$	$P_{REF} = 5.0\text{ W}$	14	16	---	<b>dB</b>
<b>IMD<sub>3</sub></b>			$F_V = 225\text{ MHz}$	---	---	-60	<b>dBc</b>