



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.

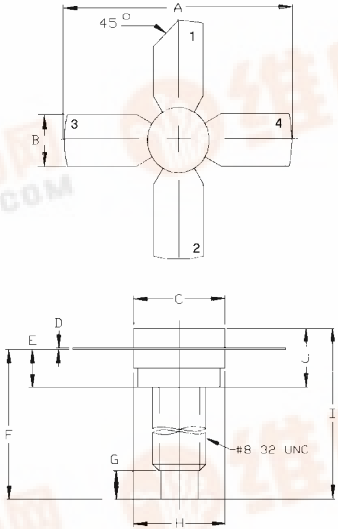
FEATURES INCLUDE:

- Gold Metallization
- Emitter Ballasting
- High Gain

MAXIMUM RATINGS

I_C	4.0 A
V_{CES}	45 V
P_{DISS}	50 W
T_J	-55 °C to +200 °C
T_{STG}	-55 °C to +200 °C
θ_{JC}	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 $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	$I_C = 40 \text{ mA}$	45			V
BV_{CEO}	$I_C = 40 \text{ mA}$	28			V
BV_{EBO}	$I_E = 5.0 \text{ mA}$	4.0			V
h_{FE}	$V_{CE} = 5.0 \text{ V}$ $I_C = 1000 \text{ mA}$	10		100	---
C_{OB}	$V_{CB} = 28 \text{ V}$ $f = 1.0 \text{ MHz}$		34.0		pF
P_G	$V_{CE} = 28 \text{ V}$ $I_C = 1000 \text{ mA}$ $P_{REF} = 5.0 \text{ W}$	14	16	---	dB
IMD_3	$F_V = 225 \text{ MHz}$	---	---	-60	dBc

