

NPN RF POWER TRANSISTOR

DESCRIPTION:

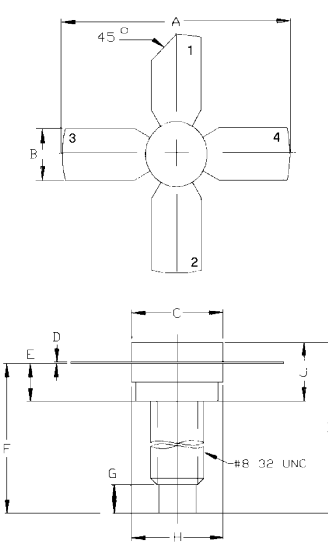
The **ASI TPV394** is a Common Emitter Device Designed for Class A High Linearity Amplifier Applications in TV Band II-III Transmitters.

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
	B	.220/5.59
	C	.270/6.86
	D	.003/0.08
	E	.117/2.97
	F	.5/2/14.53
	G	.130/3.30
	H	.275/6.99
	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
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	$V_{CE} = 28\text{ V}$	$I_C = 1000\text{ mA}$	14	16	---	dB
IMD_3		$P_{REF} = 5.0\text{ W}$ $F_V = 225\text{ MHz}$	---	---	-60	dBc