

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI TPV591** is a Common Emitter Device Designed for High Linearity Class A Television Band IV and V Transmitters.

FEATURES INCLUDE:

- Gold Metalization
- Emitter Ballasting

MAXIMUM RATINGS

I_C	300 mA
V_{CB}	45 V
P_{DISS}	5.3 W @ T _C = 25 °C
T_J	-55 °C to +200 °C
T_{STG}	-55 °C to +200 °C
q_{JC}	33.0 °C/W

PACKAGE STYLE .280 4L STUD

DIM	MILLIMETER	TOL	INCHES	TOL
A	25.40	.38	1.000	.015
B	45°	5°	45°	5°
C	0.76	.13	.030	.005
D	5.18 DIA	.13	.204 DIA	.005
E	1.19	.13	.047	.005
F	0.13	.02	.005	.001
G	2.92	.13	.115	.005
H	12.83	.38	.505	.015
I	3.30	.13	.130	.005
J	16.18	REF	.637	REF
K	1.52	.13	.060	.005

1 = COLLECTOR 2 = BASE
3 & 4 = EMITTER

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I _C = 10 mA	22			V
BV_{CBO}	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		200	---
C_{ob}	V _{CB} = 28 V f = 1.0 MHz			3.0	pF
P_g	P _{ref} = 0.5 W f = 860 MHz SOUND CARRIER = -7.0 dB VISION CARRIER = -8.0 dB CHROMA = -16 dB	13			dB
IMD	P _{ref} = 0.5 W f = 860 MHz V _{CE} = 20 V I _C = 150 mA SOUND CARRIER = -7.0 dB VISION CARRIER = -8.0 dB CHROMA = -16 dB			-58	dB



ADVANCED SEMICONDUCTOR, INC.

7525 ETHEL AVENUE · NORTH HOLLYWOOD, CA 91605 · (818) 982-1202 · Telex: 18-2651 · FAX (818) 765-3004