

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI TPV597** is designed for 1.0 W stage in Band V TV transposes amplifiers up to 860 MHz.

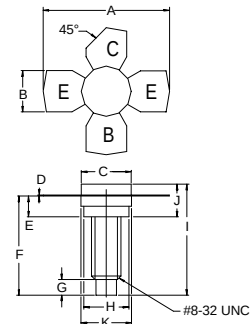
FEATURES:

- Common Emitter, 20 V operation
- $P_G = 10.5$ dB at 1.0 W/860 MHz
- **Omnigold™** Metalization System
- Emitter Ballasting

MAXIMUM RATINGS

I_C	1.4 A
V_{CBO}	45 V
V_{CEO}	24 V
V_{EBO}	3.5 V
P_{DISS}	19 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +200 °C
θ_{JC}	9.0 °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_{CBO}	$I_C = 2.0$ mA	45			V
BV_{CER}	$I_C = 40$ mA $R_{BE} = 10$ Ω	50			V
BV_{CEO}	$I_C = 40$ mA	24			V
BV_{EBO}	$I_E = 0.5$ mA	3.5			V
I_{CBO}	$V_{CB} = 30$ V			1.2	mA
h_{FE}	$V_{CE} = 5.0$ V $I_C = 200$ mA	15		120	---
C_{OB}	$V_{CB} = 28$ V $f = 1.0$ MHz			7.0	pF
P_G IMD_1	$V_{CE} = 20$ V $I_E = 440$ mA $P_{OUT} = 1.0$ W $f = 860$ MHz	10.5	11 -60	-58	dB dB