

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

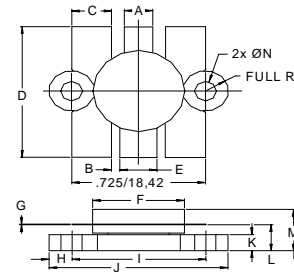
The **ASI TVV007** is Designed for Television Band III Applications up to 225 MHz.

FEATURES:

- Common Emitter
- 5:1 VWR capability
- $P_G = 10$ dB at 7.5 W/225 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	4.0 A
V_{CB}	45 V
V_{CE}	25 V
P_{DISS}	53 W @ $T_C = 25$ °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	3.3 °C/W

PACKAGE STYLE .500 6L FLG


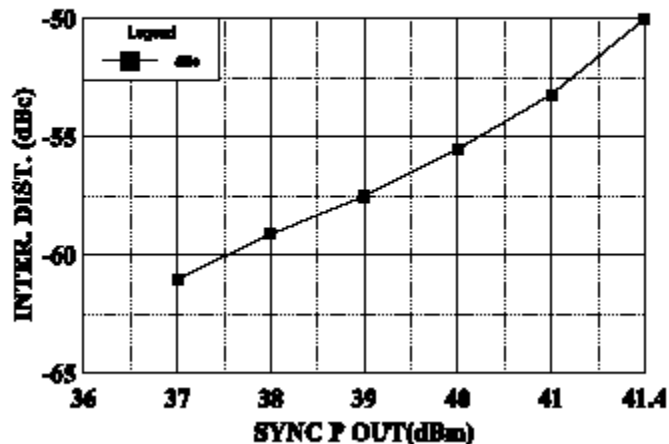
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.150 / 3.43	.160 / 4.06
B	.045 / 1.14	
C	.210 / 5.33	.220 / 5.59
D	.835 / 21.21	.865 / 21.97
E	.200 / 5.08	.210 / 5.33
F	.490 / 12.45	.510 / 12.95
G	.003 / 0.08	.007 / 0.18
H	.125 / 3.18	
I	.725 / 18.42	
J	.970 / 24.64	.980 / 24.89
K	.090 / 2.29	.105 / 2.67
L	.150 / 3.81	.170 / 4.32
M	.285 / 7.24	
N	.120 / 3.05	.135 / 3.43

ORDER CODE: ASI10655
CHARACTERISTICS $T_C = 25$ °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 25$ mA	25			V
BV_{CER}	$I_C = 50$ mA $R_{BE} = 10$ Ω	45			V
BV_{EBO}	$I_E = 10$ mA	4.0			V
h_{FE}	$V_{CE} = 5.0$ V $I_C = 500$ A	10			---
P_G	$V_{CE} = 25$ V $I_C = 1.2$ A $f = 175$ -225 MHz	10	11.2		Db
IMD_1	$P_{OUT} = 7.5$ W	-50	-52		dBc
VSWR				5:1	---
η_c			33		%
C_{ob}	$V_{EB} = 25$ V $f = 1.0$ MHz		35		pF

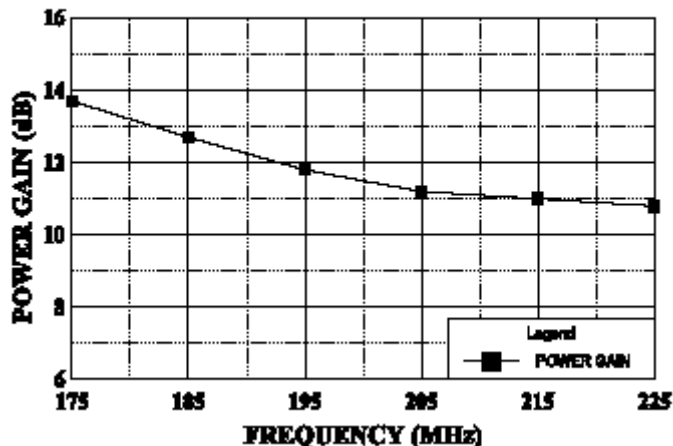
INTERMODULATION DISTORT. vs SYNC Power

V_{cc} = 25, Frequency 225 MHz



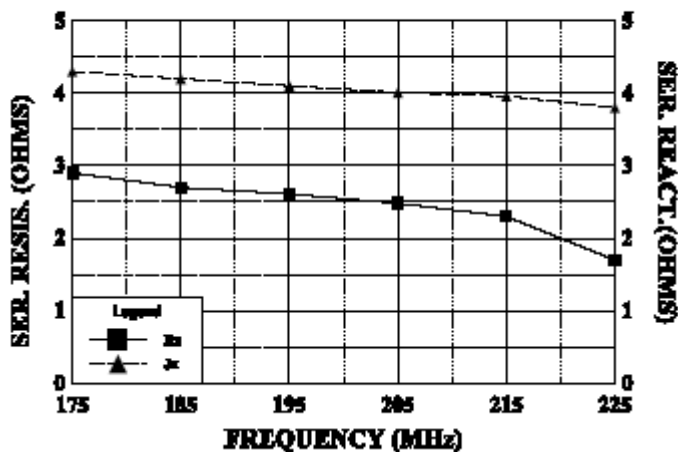
POWER GAIN vs FREQUENCY

V_{cc} 25 Volts



SERIES INPUT IMPEDANCE vs FREQUENCY

V_{cc} = 25V



SERIES LOAD IMPEDANCE vs FREQUENCY

V_{cc} = 25 V

