NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI TVV014A** is designed for Television Band III Applications up to 225 MHz.

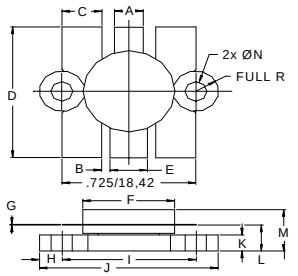
FEATURES:

- Common Emitter
- P_G = 14 dB at 14 W/225 MHz
- ***Omnigold***™ Metalization System
- Emitter Ballasting

MAXIMUM RATINGS

I_C	10 A
V_{CBO}	60 V
V_{CEO}	35 V
V_{EBO}	4.0 V
P_{DISS}	140 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	1.5 °C/W

PACKAGE STYLE .500 6L FLG



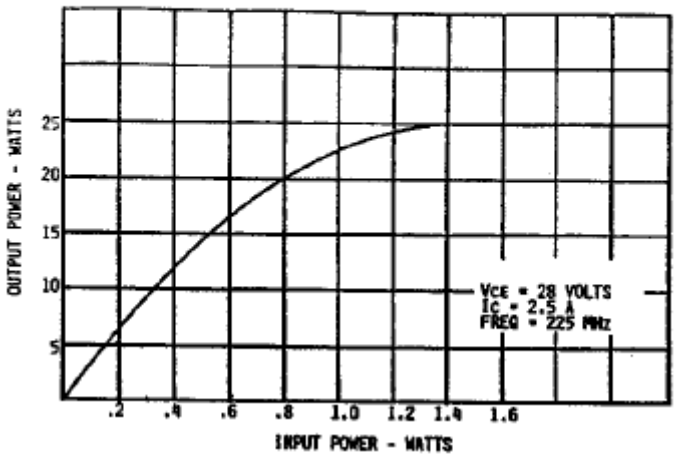
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.150 / 3.43	.160 / 4.06
B	.045 / 1.14	
C	.210 / 5.33	.220 / 5.59
D	.835 / 21.21	.865 / 21.97
E	.200 / 5.08	.210 / 5.33
F	.490 / 12.45	.510 / 12.95
G	.003 / 0.08	.007 / 0.18
H	.125 / 3.18	
I	.725 / 18.42	
J	.970 / 24.64	.980 / 24.89
K	.090 / 2.29	.105 / 2.67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

ORDER CODE: ASI10658

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I_C = 50 mA			35			V
BV_{CER}	I_C = 50 mA	R_{BE} = 10 Ω		60			V
BV_{EBO}	I_E = 10 mA			4.0			V
I_{CES}	V_{CE} = 50 V					5.0	mA
h_{FE}	V_{CE} = 5.0 V	I_C = 1.0 A		10		100	---
C_{OB}	V_{EB} = 28 V		f = 1.0 MHz			80	pF
P_G	V_{CE} = 28 V	I_C = 2.5 A	f = 225 MHz	14			dB
IMD_1	P_{OUT} = 14 W					-55	dBc

POWER OUTPUT vs POWER INPUT



IMD vs POWER OUTPUT