

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI TVU014** is Designed for Television Band IV & V Applications up to 860 MHz.

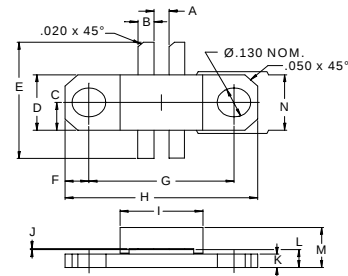
FEATURES:

- Common Emitter
- $P_G = 8.5$ dB at 14 W/860 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_C	2 x 2.6 A
V_{CBO}	45 V
V_{CEO}	25 V
V_{EBO}	4.0 V
P_{DISS}	65 W @ $T_C = 25^\circ C$
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	2.5 °C/W

PACKAGE STYLE .250 BAL FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A		.060 / 1.52
B	.055 / 1.40	.065 / 1.65
C		.125 / 3.18
D	.243 / 6.17	.255 / 6.48
E	.630 / 16.00	.670 / 17.01
F		.092 / 2.34
G	.555 / 14.10	.565 / 14.35
H	.739 / 18.77	.750 / 19.05
I	.315 / 8.00	.327 / 8.31
J	.002 / 0.05	.006 / 0.15
K	.055 / 1.40	.065 / 1.65
L	.075 / 1.91	.095 / 2.41
M		.190 / 4.83
N	.245 / 6.22	.257 / 6.53

ORDER CODE: ASI10647

CHARACTERISTICS $T_C = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CBO}	$I_C = 20$ mA	45			V
BV_{CEO}	$I_C = 40$ mA	25			V
BV_{EBO}	$I_E = 5.0$ mA	3.0			V
h_{FE}	$V_{CE} = 20$ V $I_C = 0.5$ A	10		---	---
C_{OB}	$V_{CB} = 25$ V $f = 1.0$ MHz			20	pF
P_G IMD_1	$V_{CE} = 25$ V $I_C = 2 \times 850$ mA $f = 860$ MHz $P_{OUT} = 14$ W	8.5 -50			dB dBc