NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI AVF450** is a high power common base bipolar transistor. It is designed for pulse applications for TACAN in 1030-1-90 MHz band.

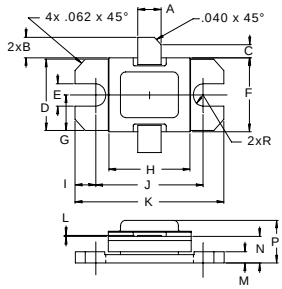
FEATURES:

- Internal Input/Output Matching Networks
- P_G = 6.2 dB at 450 W/1090 MHz
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_C	40 A
V_{CC}	55 V
P_{DISS}	1166 W @ T_C = 2°C
T_J	-65 °C to +250 °C
T_{STG}	-65 °C to +200 °C
θ_{JC}	0.15 °C/W

PACKAGE STYLE .400 2L FLG(A)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.135 / 3.43	.145 / 3.68
B	.100 / 2.54	.120 / 3.05
C	.050 / 1.27	
D	.376 / 9.55	.396 / 10.06
E	.110 / 2.79	.130 / 3.30
F	.395 / 10.03	.407 / 10.34
G	.193 / 4.90	
H	.490 / 12.45	.510 / 12.95
I	.100 / 2.54	
J	.690 / 17.53	.710 / 18.03
K	.890 / 22.61	.910 / 23.11
L	.003 / 0.08	.006 / 0.18
M	.052 / 1.32	.072 / 1.83
N	.118 / 3.00	.131 / 3.33
P		.230 / 5.84

ORDER CODE: ASI10575

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	I_C = 50 mA	55			V
BV_{EBO}	I_E = 30 mA	3.5			V
h_{FE}	V_{CE} = 5.0 V I_C = 500 mA	10			---
P_D	Pulse Drop			0.25	dB
P_G η_C	V_{CC} = 50 V P_{OUT} = 450 W f = 1030 - 1090 MHz	6.5 40			dB %

Pulse Width = 10 µsec, Duty Cycle = 1 %