VHF POWER MOSFET

N-Channel Enhancement Mode

DESCRIPTION:

The **ASI MRF172** is Designed for wideband large-signal output and driver stages in the 2.0-200 MHz frequency range.

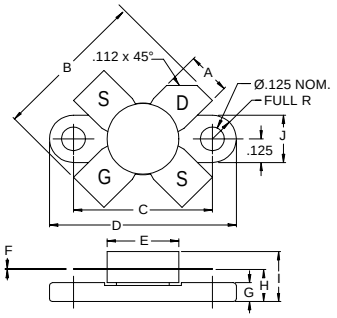
FEATURES:

- **P_G** = 10 dB Min. at 150 MHz
- **30:1 Load VSWR** Capability
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_D	9.0 A
V_{DSS}	65 V
V_{GS}	±40 V
P_{DISS}	220 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	0.8 °C/W

PACKAGE STYLE .380 4L FLG



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

ORDER CODE: ASI10830

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{DSS}	I_{DS} = 50 mA			65			**V**
I_{DSS}	V_{DS} = 28 V	V_{GS} = 0 V				5.0	**mA**
I_{GSS}	V_{DS} = 0 V	V_{GS} = 20 V				1.0	**µA**
$V_{GS(th)}$	I_D = 50 mA	V_{DS} = 10 V		1.0		5.0	**V**
g_{fs}	I_D = 2.5 A	V_{DS} = 10 V		1.5			**mho**
C_{iss} C_{oss} C_{rss}	V_{DS} = 28 V	V_{GS} = 0 V	f = 1.0 MHz		200 110 20		**pF**
P_G η_D	V_{DD} = 28 V	I_{DQ} = 50 mA	P_{out} = 80 W f = 150 MHz	10 50			**dB** **%**
ψ	V_{SWR} = 30:1 AT ALL PHASE ANGLES			NO DEGRADATION IN OUTPUT POWER			

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Specifications are subject to change without notice.