

VHF POWER MOSFET

N-Channel Enhancement Mode

DESCRIPTION:

The **ASI MRF148A** is Designed for General Purpose Class B Power Amplifier Applications up to 175 MHz.

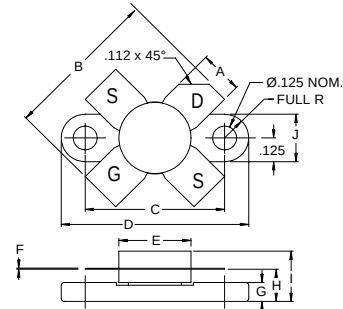
FEATURES:

- $P_G = 15$ dB Typ. at 30 W /175 MHz
- $\eta_D = 50\%$ Typ. at 30 W /30 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

I_D	6.0 A
V_{DSS}	120 V
V_{DGO}	120 V
V_{GS}	± 40 V
P_{DISS}	115 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	1.52 $^\circ\text{C/W}$

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

CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{(BR)DSS}$	$V_{GS} = 0$ V	$I_{DS} = 10$ mA	125	---	---	V
I_{DSS}	$V_{GS} = 0$ V	$V_{DS} = 50$ V	---	---	1.0	mA
I_{GSS}	$V_{GS} = 20$ V	$V_{DS} = 0$ V	---	---	100	nA
$V_{GS(th)}$	$V_{DS} = 10$ V	$I_D = 10$ mA	1.0	---	5.0	V
$V_{DS(on)}$	$V_{GS} = 10$ V	$I_D = 2.5$ A	1.0		5.0	V
G_{FS}	$V_{DS} = 10$ V	$I_D = 2.5$ A	800	---	---	mS
C_{iss} C_{oss} C_{rss}	$V_{DS} = 50$ V	$V_{GS} = 0$ V		62 35 3.0		pF
P_G η_D	$V_{DD} = 50$ V f = 30 MHz	$I_{DQ} = 100$ mA $P_{OUT} = 30$ W		18 40		dB %