VHF POWER MOSFET

N-Channel Enhancement Mode

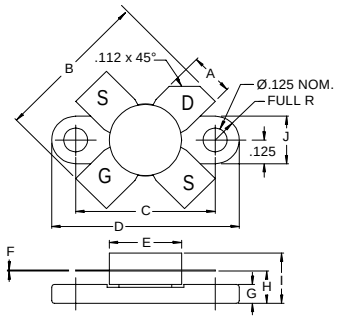
DESCRIPTION:

The **ASI DV2805** is Designed for General Purpose Class A, B, or C Power Amplifier Applications up to 175 MHz.

FEATURES:

- P_G = 04 dB Typ. at 5.0 W /175MHz
- 20-35 V operation
- ***Omnigold***™ Metalization System

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

MAXIMUM RATINGS

I_D	0.5 A
$V_{(BR)DSS}$	80 V
V_{DGR}	80 V
V_{GS}	± 20 V
P_{DISS}	10 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	17.6 °C/W

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{(BR)DSS}$	V_{GS} = 0 V	I_{DS} = 5.0 mA		80	---	---	**V**
I_{DSS}	V_{DS} = 28 V	V_{GS} = 0 V		---	---	2.0	**mA**
I_{GSS}	V_{DS} = 0 V	V_{GS} = 40 V		---	---	1.0	**µA**
V_{GS}	V_{DS} = 10 V	I_D = 25 mA		1.0	---	6.0	**V**
G_M	V_{DS} = 0.28 V	I_D = 150 mA		50	---	---	**mmho**
C_{iss} C_{oss} C_{rss}	V_{GS} = 28 V	V_{DS} = 0 V	F = 1.0 MHz		22 17 3.0	15 15 2.0	**pF**
P_G η_D	V_{DD} = 28 V f = 175 MHz	I_{DQ} = 25 mA	P_{OUT} = 5.0 W	9.0 55	10		**dB** %

Specifications are subject to change without notice.