VHF POWER MOSFET

N-Channel Enhancement Mode

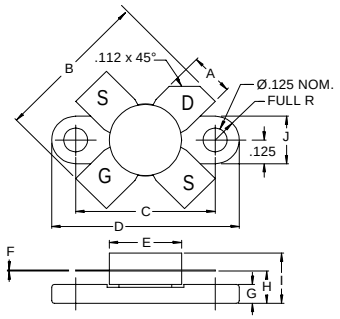
DESCRIPTION:

The **VFT15-28** is a gold metallized N-Channel Enhancement mode MOSFET, intended for use in 28 VDC large signal applications to 400 MHz.

FEATURES:

- P_G = 13 dB Typ. at 15 W /175MHz
- ***Omnigold***™ Metalization System
- Class A or AB
- 2-400 MHz operation

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: ASI10702

MAXIMUM RATINGS

I_D	2.5 A
$V_{(BR)DSS}$	65 V
V_{DGR}	65 V
V_{GS}	± 40 V
P_{DISS}	55 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	3.2 °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		60	---	---	**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_{FS}	V_{DS} = 10 V	I_D = 250 mA		0.25	---	---	**mho**
C_{iss} C_{oss} C_{rss}	V_{DS} = 28 V	V_{GS} = 0 V	f = 1.0 MHz		21.5 16.5 2.7		**pF**

Specifications are subject to change without notice.

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
P_G	V_{DD} = 28 V	I_{DQ} = 25 mA	P_{OUT} = 15 W	13	14		**dB**
η_D	F = 175 MHz			50	60		%