VHF POWER MOSFET
N-Channel Enhancement Mode

DESCRIPTION:

The **VFT5-28SL** is Designed for Class A and AB VHF Power Amplifiers operating at frequencies up to 250 MHz.

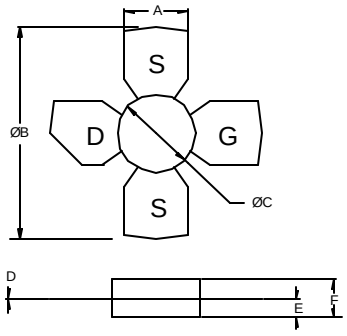
FEATURES:

- P_G = 21 dB Typical at 175 MHz
- η_D = 50% Typical at P_{OUT} = 5 Watts
- ***Omnigold***™ Metalization System

MAXIMUM RATINGS

I_D	1.25 A
V_{DSS}	60 V
V_{DGR}	60 V
V_{GS}	±40 V
P_{DISS}	17.5 W @ T_C = 25 °C
T_J	-65 °C to +200 °C
T_{STG}	-65 °C to +150 °C
θ_{JC}	10 °C/W

PACKAGE STYLE .280 4L PILL



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 . 1.52
F	.118 / 3.00	.130 / 3.30

ORDER CODE: ASI10701

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{(BR)DSS}$	V_{GS} = 0 V	I_{DS} = 5 mA		60			V
I_{DSS}	V_{DS} = 28 V	V_{GS} = 0 V				0.8	mA
I_{GSS}	V_{DS} = 0 V	V_{GS} = 20 V				1.0	mA
$V_{GS(TH)}$	V_{DS} = 10 V	I_D = 10 mA		1.0	---	6.0	V
G_{FS}	V_{GS} = 10 V	I_D = 250 mA		110			mS
C_{iss} C_{oss} C_{rss}	V_{DS} = 28 V	V_{GS} = 0 V	F = 1.0 MHz	---	8.5 6.5 5.5	---	pF
G_{PS} η_D	V_{DD} = 28 V F = 175 MHz	I_{DQ} = 50 mA	P_{OUT} = 5 W	20 45	21		dB %

Specifications are subject to change without notice.