

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
- $h_D = 50\%$ 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 @ $T_C = 25^\circ C$
T_J	$-65^\circ C$ to $+200^\circ C$
T_{STG}	$-65^\circ C$ to $+150^\circ C$
q_{JC}	$10^\circ C/W$

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 $T_C = 25^\circ C$

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} h_D	$V_{DD} = 28$ V $F = 175$ MHz	$I_{DQ} = 50$ mA	$P_{OUT} = 5$ W	20 45	21		dB %