

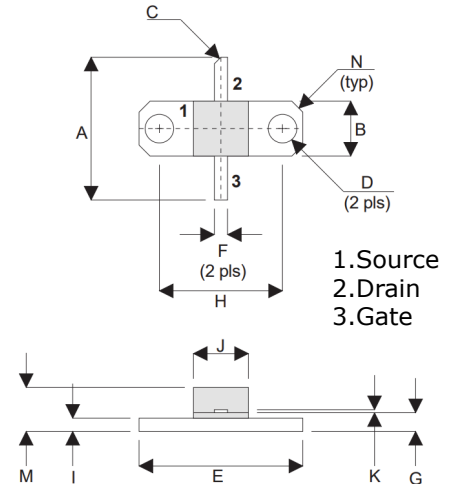
### DESCRIPTION

Silicon N-channel enhancement mode vertical D-MOS transistor designed for large signal amplifier applications at the HF/VHF/UHF frequency range.

### FEATURES

- Output Power: 7.5 W
- Power Gain: 9 dB Min@1000M, 12.5V
- Efficiency: 35% Min

### DIMENSIONS



DIM	mm	Tol.	Inches	Tol.	DIM	mm	Tol.	Inches	Tol.
A	16.51	0.25	0.650	0.010	G	2.16	0.13	0.085	0.005
B	6.35	0.13	0.250	0.005	H	14.22	0.08	0.560	0.003
C	45°	5°	45°	5°	I	1.52	0.13	0.060	0.005
D	3.30	0.13	0.130	0.005	J	6.35	0.13	0.250	0.005
E	18.92	0.08	0.745	0.003	K	0.13	0.03	0.005	0.001
F	1.52	0.13	0.060	0.005	M	5.08	0.51	0.200	0.020

### MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Drain-Source Voltage	$V_{DSS}$	60	V
Gate-Source Voltage	$V_{GS}$	±20	V
Drain Current — Continuous	$I_D$	6	A
Total Device Dissipation	$P_D$	45W	W
Junction Temperature	$T_J$	200	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C

### ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D=10mA, V_{GS}=0$	60	-	-	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{GS}=0V, V_{DS}=12.5V$	-	-	2	mAdc
Gate-Source Leakage Current	$I_{GSS}$	$V_{GS}=\pm 20V, V_{DS}=0V$	-	-	1	uAdc
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=10V, I_D=10mA$	1.0	-	7.0	V
Forward Transconductance	$g_{fs}$	$V_{DS}=10V, I_D=0.6A$	0.54	-	-	S
Input Capacitance	$C_{iss}$	$V_{DS}=12.5V, V_{GS}=0V, f=1.0MHz$	-	45	-	pF
Output Capacitance	$C_{oss}$		-	36	-	pF
Reverse Transfer Capacitance	$C_{rss}$		-	4	-	pF
Common Source Power Gain	$G_P$	$V_{DD}=12.5V, P_{OUT}=7.5W, f=1000MHz$	9.0	-	-	dB
Drain Efficiency	$\eta_D$		35	-	-	%

Note : Above parameters , ratings , limits and conditions are subject to change.