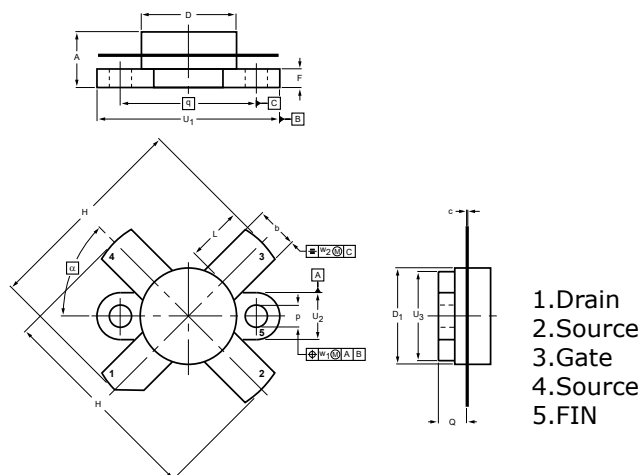


### DESCRIPTION

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

### FEATURES

- Output Power: 80 W
- Power Gain: 13 dB Min@175M, 28V
- Efficiency: 60% Min



### DIMENSIONS

NOTE: ALL ELECTRODES ARE ISOLATED FROM FLANGE.

UNIT	A	b	c	D	D <sub>1</sub>	F	H	L	p	Q	q	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	α
mm	7.27 6.17	5.82 5.56	0.16 0.10	12.86 12.59	12.83 12.57	2.67 2.41	28.45 25.52	7.93 6.32	3.30 3.05	4.45 3.91	18.42	24.90 24.63	6.48 6.22	12.32 12.06	0.51	1.02	45°
inches	0.286 0.243	0.229 0.219	0.006 0.004	0.506 0.496	0.505 0.495	0.105 0.095	1.120 1.005	0.312 0.249	0.130 0.120	0.175 0.154	0.725	0.98 0.97	0.255 0.245	0.485 0.475	0.02	0.04	

### MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Drain-Source Voltage	V <sub>DS</sub>	65	V
Gate-Source Voltage	V <sub>GS</sub>	±20	V
Drain Current — Continuous	I <sub>D</sub>	16	A
Total Device Dissipation	P <sub>D</sub>	206	W
Junction Temperature	T <sub>J</sub>	200	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to 150	°C

### ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Drain-Source Breakdown Voltage	V <sub>(BR)DS</sub>	I <sub>D</sub> =20mA, V <sub>GS</sub> =0	65	-	-	V
Zero Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>GS</sub> =0V, V <sub>DS</sub> =28V	-	-	4.0	mA
Gate-Source Leakage Current	I <sub>GSS</sub>	±V <sub>GS</sub> =20V, V <sub>DS</sub> =0V	-	-	4	µA
Gate Threshold Voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =400mA	2.0	-	6.0	V
Forward Transconductance	g <sub>fs</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =4A	2.0	-	-	S
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =28V, V <sub>GS</sub> =0V, f=1.0MHz	-	140	-	pF
Output Capacitance	C <sub>oss</sub>		-	105	-	pF
Reverse Transfer Capacitance	C <sub>rss</sub>		-	10	-	pF
Common Source Power Gain	G <sub>PS</sub>	V <sub>DD</sub> =28V, P <sub>OUT</sub> =80W, f=175MH	13.0	-	-	dB
Collector Efficiency	η <sub>C</sub>		60	-	-	%

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