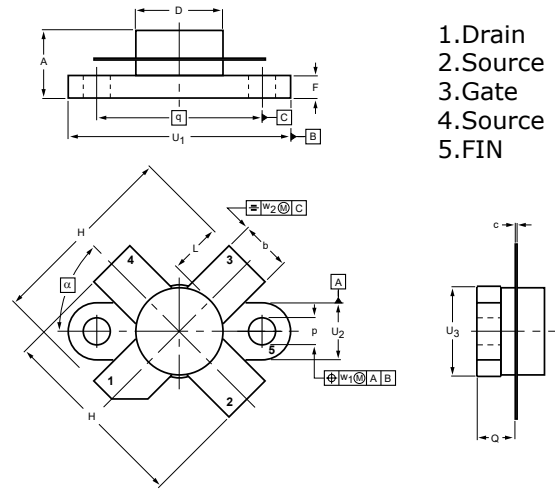


DESCRIPTION

Silicon N-channel enhancement mode vertical D-MOS transistor is designed for wideband large-signal output and driver stages up to 400 MHz range.

FEATURES

- Output Power: 30 W
- Power Gain: 16 dB Typ@150M, 28V
7.7 dB Typ@400M, 28V
- Efficiency: 60% Typ



- 1.Drain
- 2.Source
- 3.Gate
- 4.Source
- 5.FIN

DIMENSIONS

NOTE: ALL ELECTRODES ARE ISOLATED FROM FLANGE.

UNIT	A	b	c	D	D ₁	F	H	L	p	Q	q	U ₁	U ₂	U ₃	w ₁	w ₂	α
mm	7.47 6.37	5.82 5.56	0.18 0.10	9.73 9.47	9.63 9.42	2.72 2.31	20.71 19.93	5.61 5.16	3.33 3.04	4.63 4.11	18.42	25.15 24.38	6.61 6.09	9.78 9.39	0.51	1.02	45°
inches	0.294 0.251	0.229 0.219	0.007 0.004	0.383 0.373	0.397 0.371	0.107 0.091	0.815 0.785	0.221 0.203	0.131 0.120	0.182 0.162	0.725	0.99 0.96	0.26 0.24	0.385 0.370	0.02	0.04	

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Drain-Source Voltage	V _{DSS}	65	V
Gate-Source Voltage	V _{GS}	±40	V
Drain Current — Continuous	I _D	5	A
Total Device Dissipation	P _D	100	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	65	-	-	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{GS} =0V, V _{DS} =28V	-	-	4	mAdc
Gate-Source Leakage Current	I _{GSS}	V _{GS} =20V, V _{DS} =0V	-	-	1	uAdc
Gate Threshold Voltage	V _{GS(th)}	V _{DS} = 10 V, I _D = 25mA	1.0	3.0	6.0	V
Forward Transconductance	g _{fs}	V _{DS} = 10 V, I _D = 0.5A	0.5	0.75	-	mhos
Input Capacitance	C _{iss}	V _{DS} = 28 V, V _{GS} = 0 V, f = 1.0 MHz	-	45	-	pF
Output Capacitance	C _{oss}		-	38	-	pF
Reverse Transfer Capacitance	C _{rss}		-	3.8	-	pF
Common Source Power Gain	G _{PS}	V _{DD} =28V, P _{OUT} =30W, f=400MHz, I _{DQ} = 25 mA	-	7.7	-	dB
Common Source Power Gain	G _{PS}	V _{DD} =28V, P _{OUT} =30W, f=150MHz, I _{DQ} = 25 mA	13.0	16.0	-	dB
Drain Efficiency	η_D	V _{DD} =28V, P _{OUT} =30W, f=150MHz, I _{DQ} = 25 mA	50.0	60.0	-	%

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