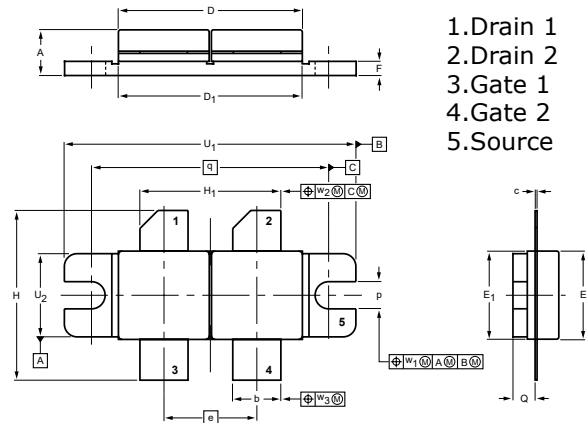


DESCRIPTION

Silicon N-channel enhancement mode vertical D-MOS transistor is designed for broadband HF and VHF. The part makes possible solid state transmitters for FM broadcast or TV channel frequency bands.

FEATURES

- Output Power: 300 W
- Power Gain: 14 dB Typ@175M, 28V
13 dB Min@175M, 28V
- Efficiency: 60% Min@175M, 28V



DIMENSIONS

UNIT	A	b	c	D	D ₁	e	E	E ₁	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	5.77 5.00	5.85 5.58	0.16 0.10	22.17 21.46	21.98 21.71	11.05	10.27 10.05	10.29 10.03	1.78 1.52	21.08 19.56	17.02 16.51	3.28 3.02	2.85 2.59	27.94	34.17 33.90	9.91 9.65	0.25	0.51	0.25
inches	0.227 0.197	0.230 0.220	0.006 0.004	0.873 0.845	0.865 0.855	0.435	0.404 0.396	0.405 0.396	0.070 0.060	0.830 0.770	0.670 0.650	0.129 0.119	0.112 0.102	1.100	1.345 1.335	0.390 0.380	0.010	0.020	0.010

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Drain-Source Voltage	V _{DSS}	70	V
Drain-Gate Voltage	V _{DGR}	70	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current — Continuous	I _D	30	A
Total Device Dissipation	P _D	450	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 =100mA, V _{GS} =0	70	-	-	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{GS} =0V, V _{DS} =28V	-	-	6	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 = 10mA	1.0	-	7.0	V
Forward Transconductance	g _{fs}	V _{DS} = 10 V, I _D = 6A	4.8	-	-	mhos
Input Capacitance	C _{iss}	V _{DS} = 28 V, V _{GS} = 0 V, f = 1.0 MHz	-	400	-	pF
Output Capacitance	C _{oss}		-	220	-	pF
Reverse Transfer Capacitance	C _{rss}		-	20	-	pF
Common Source Power Gain	G _{PS}	V _{DD} =28V, P _{OUT} =300W, f=175MHz	13.0	14.0	-	dB
Drain Efficiency	η _D		60.0	-	-	%

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