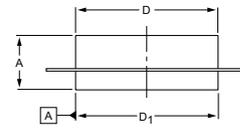


DESCRIPTION

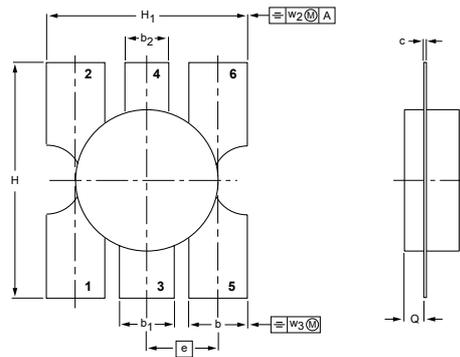
Silicon N-channel enhancement mode vertical D-MOS transistor. Designed for VHF applications. The high power, high gain and broadband performance of this device makes possible solid state transmitters for FM broadcast or TV channel



1. EMITTER(SOURCE)
2. EMITTER(SOURCE)
3. BASE(GATE)
4. COLLECTOR(DRAIN)
5. EMITTER(SOURCE)
6. EMITTER(SOURCE)

FEATURES

- Output Power: 100 W
- Power Gain: 13 dB Min@225M, 50V
18 dB Min@108M, 50V
- Efficiency: 50% Min@225M, 50V
60% Min@108M, 50V



DIMENSIONS

UNIT	A	b	b ₁	b ₂	c	D	D ₁	e	H	H ₁	Q	w ₂	w ₃
mm	4.53 3.70	5.59 5.33	5.34 5.08	4.07 3.81	0.16 0.10	12.86 12.59	12.83 12.57	6.48	21.97 21.20	18.55 18.28	1.71 1.44	0.51	0.26
inches	0.178 0.146	0.220 0.210	0.210 0.200	0.160 0.150	0.006 0.004	0.506 0.496	0.505 0.495	0.255	0.865 0.835	0.730 0.720	0.067 0.057	0.02	0.01

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Drain-Source Voltage	V _{DSS}	110	V
Gate-Source Voltage	±V _{GS}	20	V
Drain Current — Continuous	I _D	9	A
Total Device Dissipation	P _D	150	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 =30mA, V _{GS} =0	110	-	-	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{GS} =0V, V _{DS} =50V	-	-	1	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 = 50mA	2.0	-	4.5	V
Forward Transconductance	g _{fs}	V _{DS} = 10 V, I _D = 3A	2.7	-	-	S
Input Capacitance	C _{iss}	V _{DS} = 50 V, V _{GS} = 0 V, f = 1.0 MHz	-	280	-	pF
Output Capacitance	C _{oss}		-	100	-	pF
Reverse Transfer Capacitance	C _{rss}		-	8	-	pF
Common Source Power Gain	G _{PS}	V _{DD} =50V, P _{OUT} =100W,	13.0	-	-	dB
Drain Efficiency	η _D	f=225 MHz	50	-	-	%
Common Source Power Gain	G _{PS}	V _{DD} =50V, P _{OUT} =100W,	18.0	-	-	dB
Drain Efficiency	η _D	f=108 MHz	60	-	-	%

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