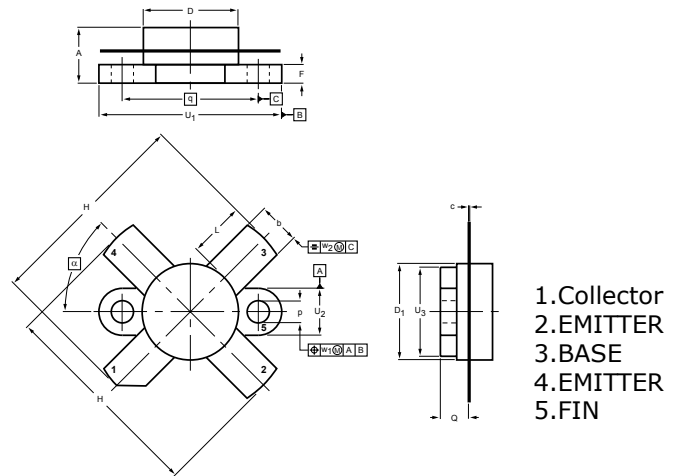


DESCRIPTION

Designed for 12.5 volt low band VHF large-signal power amplifier applications in commercial and industrial FM equipment.

FEATURES

- Specified 12V, 50MHz Characteristics
- $P_o = 70W$
- $G_p = 12 \text{ dB min. at } 70 \text{ W/50 MHz}$



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	7.27	5.82	0.16	12.86	12.83	2.67	28.45	7.93	3.30	4.45	18.42	24.90	6.48	12.32	0.51	1.02	45°
	6.17	5.56	0.10	12.59	12.57	2.41	25.52	6.32	3.05	3.91		24.63	6.22	12.06			
inches	0.286	0.229	0.006	0.506	0.505	0.105	1.120	0.312	0.130	0.175	0.725	0.98	0.255	0.485	0.02	0.04	
	0.243	0.219	0.004	0.496	0.495	0.095	1.005	0.249	0.120	0.154		0.97	0.245	0.475			

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	V_{CB0}	50	V
Collector-Emitter Voltage	V_{CES}	50	V
Collector-Emitter Voltage	V_{CEO}	18	V
Collector Current	I_C	20	A
Emitter-Base Voltage	V_{EBO}	4	V
Collector Power Dissipation	P_{DISS}	250	W
Junction Temperature	T_J	-65 to 175	°C
Storage Temperature Range	T_{STG}	-65 to 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=100\text{mA}, I_B=0$	18	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=50\text{mA}, V_{EB}=0$	50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\text{mA}, I_C=0$	4	-	-	V
Collector Cutoff Current	I_{CES}	$V_{CB} = 13.6\text{V}, I_E = 0$			20	mA
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}, I_C=5\text{A}$	10	50	150	
Power Gain	G_p	$V_{CC}=12.5\text{V}, P_{OUT}=70\text{W},$	11	13	-	dB
Collector Efficiency	η_c	$f=50\text{MHz}$	50		-	%

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