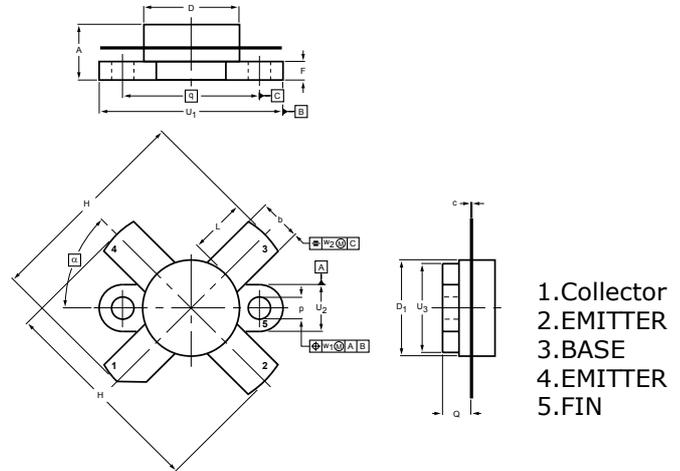


## DESCRIPTION

Designed primarily for 28V FM/VHF broadcast transmitters application.

## FEATURES

- Specified 28V, 108MHz Characteristics
- $P_o = 75W$
- $G_p = 10.3 \text{ dB typ. At } 75 \text{ W/108 MHz}$



## 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>	$\alpha$
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	$V_{CB0}$	70	V
Collector-Emitter Voltage	$V_{CES}$	70	V
Collector-Emitter Voltage	$V_{CEO}$	35	V
Collector Current(continue)	$I_C$	10	A
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Power Dissipation	$P_{DISS}$	120	W
Junction Temperature	$T_J$	-65 to 200	°C
Storage Temperature Range	$T_{STG}$	-65 to 175	°C

## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	70	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=50mA, V_{EB}=0$	70	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10mA, I_C=0$	4	-	-	V
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 30 \text{ V}, I_E = 0$	-	-	5	mA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=1A$	10	-	180	
Collector Output Capacitance	$C_{ob}$	$V_{CB}=28V, I_E=0$ $f=1MHz$	-	-	85	pF
Power Gain	$G_p$	$V_{CC}=28V, P_{OUT}=75W$	9.2	10.0	-	dB
Collector Efficiency	$\eta_C$	$f=108MHz$	70	-	-	%

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