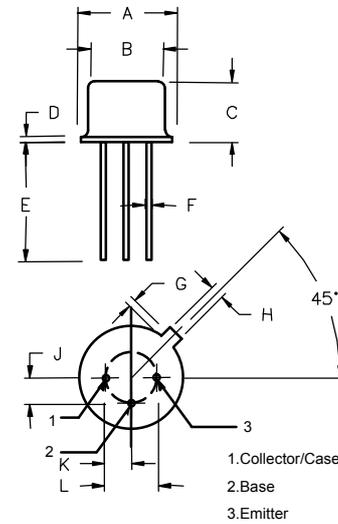


DESCRIPTION

Designed Primarily For UHF Power Amplifiers Applications.

FEATURES

- Specified 12.5V, 520MHz Characteristics
- $P_o = 3\text{ W}$
- $G_p = 5.7\text{ dB min. at } 3\text{W}/ 520\text{ MHz}$
- RUGGEDIZED VSWR $\infty:1$



DIMENSIONS

UNIT	A	B	C	D	E	F	G	H	J	K	L
mm	9.40	8.51	6.60	1.14	12.70	0.48	1.02	0.86	2.67	2.67	5.33
	8.89	8.00	6.10	0.38		0.41	0.74	0.71	2.41	2.41	4.83
inches	0.370	0.335	0.260	0.045	0.500	0.019	0.040	0.034	0.105	0.105	0.210
	0.350	0.315	0.240	0.015		0.016	0.029	0.028	0.095	0.095	0.190

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CES}	50	V
Collector-Emitter Voltage	V_{CEO}	20	V
Collector Current	I_C	1	A
Emitter-Base Voltage	V_{EBO}	4	V
Collector Power Dissipation	P_{DISS}	10	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	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	20	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=10\text{mA}, V_{EB}=0$	50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	4	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 50\text{ V}, I_E = 0$	-	-	0.3	mA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=0.1\text{A}$	10	50	180	
Output Power	P_o	$V_{CC}=12.5\text{V}, P_{OUT}=3\text{W}$	3.0	3.5	-	W
Collector Efficiency	η_C	$P_{in} = 0.8\text{W}$	50.0	60.0	-	%

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