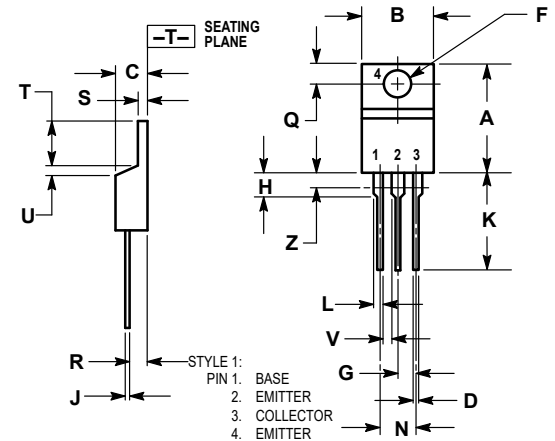
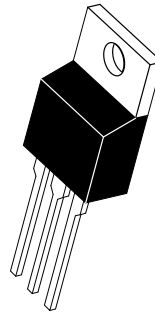


DESCRIPTION

Designed for power amplifier on VHF band mobile radio applications.

FEATURES

- Specified 27V, 175MHz Characteristics
- $P_o = 8 \text{ W(PK)}$ min
- $G_p = 15 \text{ dB}$ min. at $8 \text{ W(PK)}/136 \text{ MHz}/27\text{V}$



DIMENSIONS

UNIT	A	B	C	D	F	G	H	J	K	L	N	Q	R	S	T	U	V	Z
mm	15.75	10.28	4.82	0.88	3.73	2.66	3.93	0.64	14.27	1.52	5.33	3.04	2.79	1.39	6.47	1.27	--	2.04
	14.48	9.66	4.07	0.64	3.61	2.42	2.8	0.46	12.70	1.15	4.83	2.54	2.04	1.15	5.97	0.00	1.15	--
inches	0.620	0.405	0.19	0.035	0.147	0.105	0.155	0.025	0.562	0.060	0.210	0.12	0.11	0.055	0.255	0.05	--	0.08
	0.570	0.380	0.16	0.025	0.142	0.095	0.110	0.018	0.500	0.045	0.190	0.10	0.08	0.045	0.235	0.00	0.045	--

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}	35	V
Collector Current	I_C	1	A
Emitter-Base Voltage	V_{EBO}	4	V
Collector Power Dissipation	P_{DISS}	12.5	W
Junction Temperature	T_J	-65 to 150	°C
Storage Temperature Range	T_{STG}	-65 to 150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	35	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=50\text{mA}, V_{EB}=0$	50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=5\text{mA}, I_C=0$	4	-	-	V
Collector Cutoff Current	I_{CES}	$V_{CB}=25\text{V}, I_E=0$	-	-	500	uA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=100\text{mA}$	10	70	200	
Power Gain	G_p	$V_{CC}=13.5\text{V}, P_{OUT}=2.0\text{W}, f=136\text{MHz}$		10	-	dB
Power Gain	G_p	$V_{CC}=27\text{V}, P_{OUT}=8.0\text{W(PK)}, f=136\text{MHz}$	13.0	15	-	dB
Collector Efficiency	η_c	$V_{CC}=27\text{V}, P_{OUT}=8.0\text{W(PK)}, f=136\text{MHz}$	-	55	-	%

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