

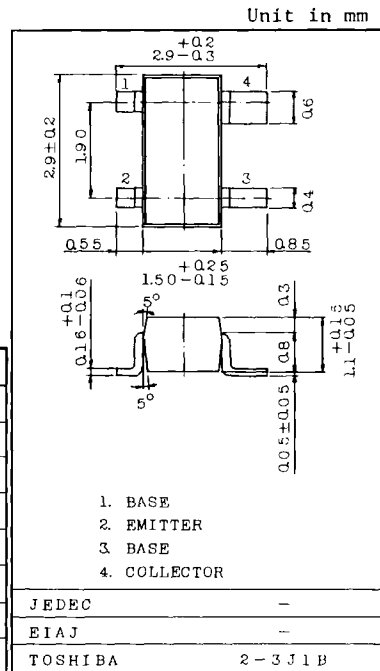
UHF TV TUNER RF AMPLIFIER APPLICATIONS.

FEATURES:

- Low Noise Figure : $NF=3.5dB(Typ.)$
- High Power Gain : $G_{pb}=17dB(Typ.)$
- Excellent Forward AGC Characteristics

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	25	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	2	V
Base Current	I_B	4	mA
Collector Current	I_C	20	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ C$

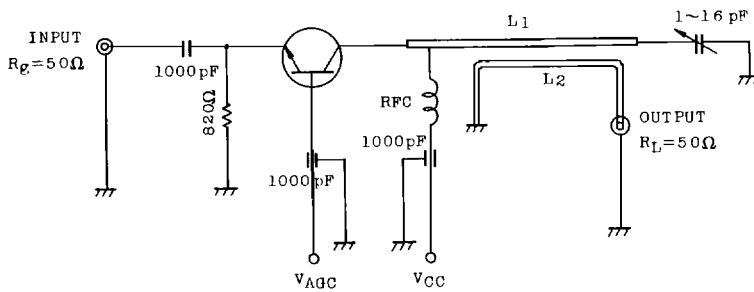


Weight : 0.013g

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=10V, I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=2V, I_C=0$	-	-	1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	20	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=2mA$	40	100	-	-
Transition Frequency	f_T	$V_{CE}=10V, I_C=2mA$	700	1100	-	MHz
Reverse Transfer Capacitance	C_{rb}	$V_{CE}=10V, I_B=0, f=1MHz$	-	0.20	0.45	pF
Power Gain	G_{pb}	$V_{CC}=12V, V_{AGC}=3.0V$	14	17	-	dB
Noise Figure	NF	$f=800MHz$ (Fig.1)	-	3.5	5.0	dB
AGC Voltage	V_{AGC}	$V_{CC}=12V, G.R.=-20dB$ $f=800MHz$	5.25	6.5	7.75	V

Fig. 1 800MHz G_{pb}, NF TEST CIRCUIT



L₁, L₂ : $\phi 1.0\text{mm}$ SILVER PLATED COPPER WIRE

Note. V_{AGC} measured by the test circuit shown in Fig.1, when the power gain is reduced to 20dB compared with G_{pb} shown above Table.

Marking

