

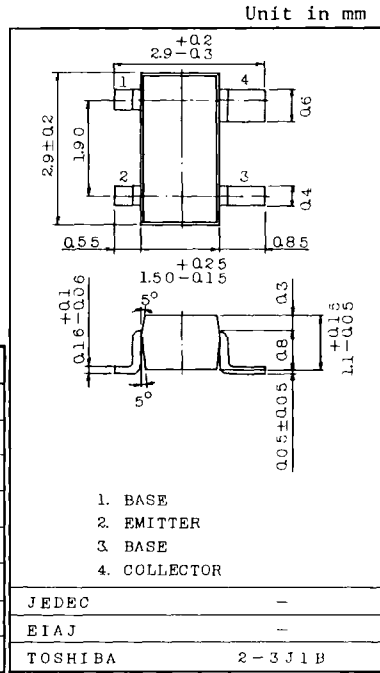
UHF TV TUNER RF AMPLIFIER APPLICATIONS.

FEATURES:

- . Low Noise Figure : NF=3.5dB(Typ.)
- . High Power Gain : Gpb=17dB(Typ.)
- . Excellent Forward AGC Characteristics

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	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	°C
Storage Temperature Range	T _{stg}	-55 ~ 125	°C

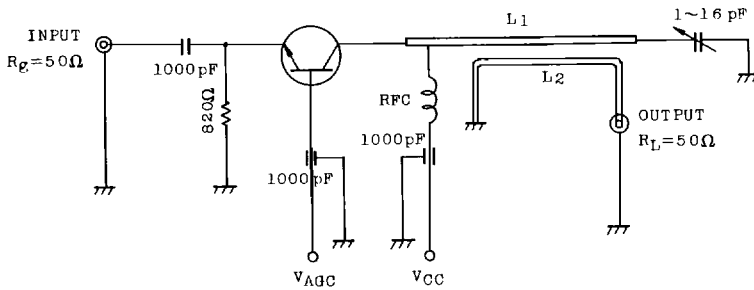


Weight : 0.013g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	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



L_1, L_2 : $\phi 1.0\text{mm}$ 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

