

UHF TV TUNER RF AMPLIFIER APPLICATIONS.

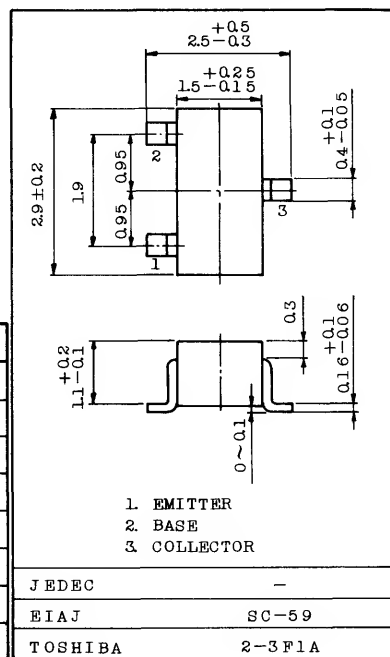
Unit in mm

FEATURES:

. Excellent Forward AGC Characteristics.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	25	V
Collector-Emitter Voltage	V_{CE0}	20	V
Emitter-Base Voltage	V_{EB0}	3	V
Collector Current	I_C	20	mA
Base Current	I_B	10	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$

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

Weight : 0.012g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=10\text{V}, I_E=0$	—	—	0.1	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=2\text{V}, I_C=0$	—	—	1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=1\text{mA}, I_B=0$	20	—	—	V
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=2\text{mA}$	25	100	—	—
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=2\text{mA}$	600	900	—	MHz
Reverse Transfer Capacitance	C_{rb}	$V_{CE}=10\text{V}, I_B=0, f=1\text{MHz}$	—	0.38	0.55	pF
Power Gain	G_{pb}	$V_{CC}=12\text{V}, V_{AGC}=3.0\text{V}$	9	12	—	dB
Noise Figure	NF	$f=800\text{MHz}$	—	4.0	6.0	dB
AGC Voltage	V_{AGC}	$V_{CC}=12\text{V}, GR=-20\text{dB}$ $f=800\text{MHz}$	5.75	7.0	8.25	V

Marking

Type Name

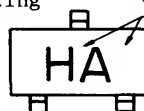
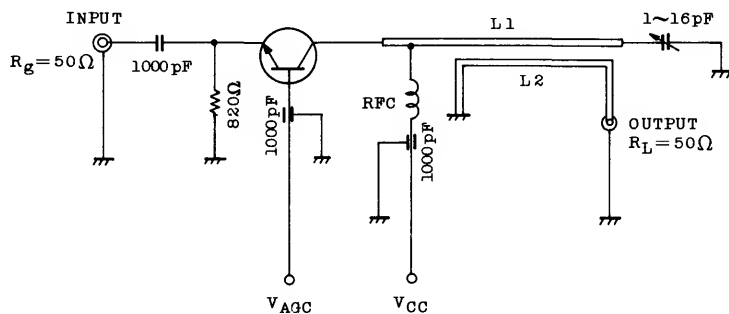


Fig. 1 800MHz G_{pb} , NF TEST CIRCUIT



L1, L2 : $\phi 1.0$ 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.

