

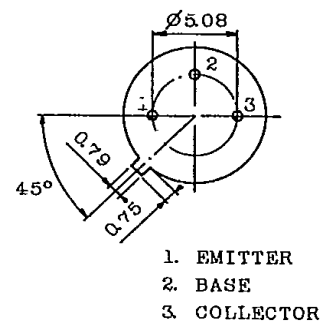
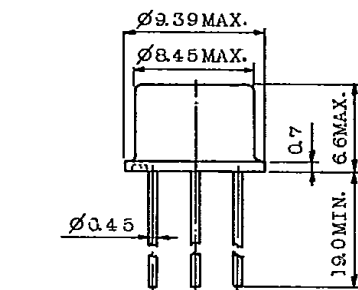
UHF BAND POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Output Power : $P_o=0.9W(\text{Min.})$
($f=470\text{MHz}$, $V_{CC}=12.6V$, $P_i=0.3W$)
- All Electrodes Insulated from Case.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	0.5	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	5	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-65 \sim 175$	$^\circ\text{C}$



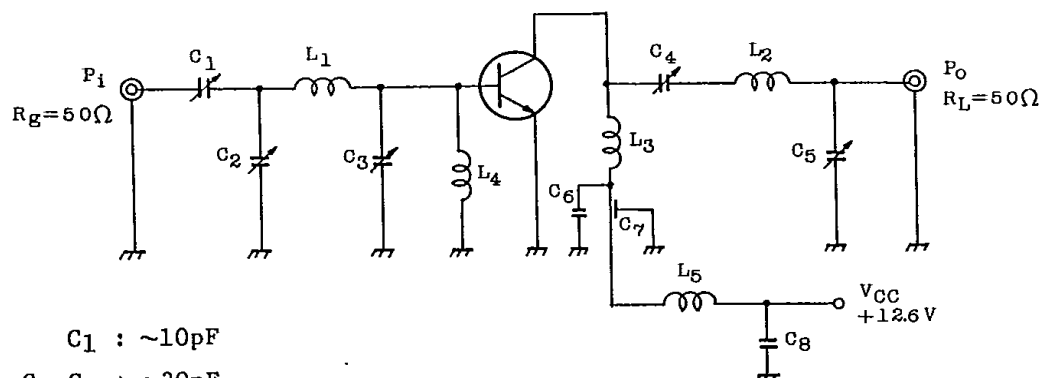
JEDEC	TO-39
EIAJ	TC-5, TB-5B
TOSHIBA	2-8B1C

Weight : 1.2g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=15V$, $I_E=0$	-	-	1	μA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1\text{mA}$, $I_E=0$	40	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}$, $I_B=0$	20	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1\text{mA}$, $I_C=0$	4	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=5V$, $I_C=0.1A$	20	-	-	
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1\text{MHz}$	-	6.5	10	pF
Output Power	P_o	(Fig.) $V_{CC}=12.6V$, $f=470\text{MHz}$, $P_i=0.3W$	0.9	1.0	-	W
Power Gain	G_{pe}		4.7	5.2	-	dB
Collector Efficiency	η_c		60	-	-	%

Fig. $f=470\text{MHz}$ P_O TEST CIRCUIT



C_1 : $\sim 10\text{pF}$
 C_2, C_5 : $\sim 30\text{pF}$
 C_3, C_4 : $\sim 25\text{pF}$
 C_5, C_8 : $0.01\mu\text{F}$
 C_7 : 1000pF

L_1 : $\phi 0.8$ SILVER PLATED COPPER WIRE, 6ID, 2T

L_2 : $\phi 1$ SILVER PLATED COPPER WIRE, 25 LENGTH, STRAIGHT

L_3 : $\phi 1$ SILVER PLATED COPPER WIRE, 20 LENGTH, STRAIGHT

L_4, L_5 : RFC

