



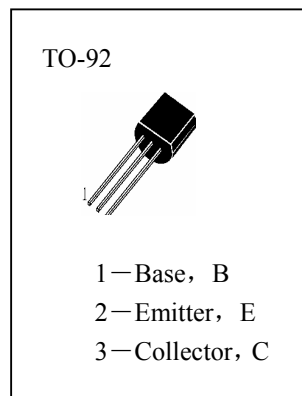
H2216

APPLICATIONS

TV FINAL PICTURE IF AMPLIFIER APPLICATIONS.

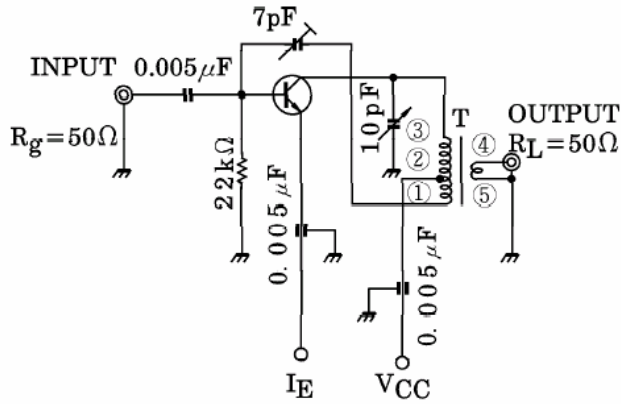
ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

- T_{stg}—Storage Temperature..... -55~150°C
- T_j—Juncttion Temperature.....150°C
- P_C—Collector Dissipation.....300mW
- V_{CBO}—Collector-Base Voltage.....50V
- V_{CEO}—Collector-Emitter Voltage.....45V
- V_{EBO}—Emitter-Base Voltage.....4V
- I_C—Collector Current.....50mA
- I_e—Emitter Current.....-50mA



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	50			V	I _C =100 μ A, I _E =0
BVCEO	Collector-Emitter Breakdown Voltage	45			V	I _C =10mA, I _B =0
BVEBO	Emitter- Base Breakdown Voltage	4			V	I _E =100 μ A, I _C =0
ICBO	Collector Cut-off Current			0.1	μ A	V _{CB} =30V, I _E =0
IEBO	Emitter Cut-off Current			0.1	μ A	V _{EB} =3V, I _C =0
HFE	DC Current Gain	40		140		V _{CE} =12.5V, I _C =12.5mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage			0.2	V	I _C =15mA, I _B =1.5mA
V _{BE(sat)}	Base- Emitter Saturation Voltage			1.5	V	I _C =15mA, I _B =1.5mA
Cob	Output Capacacitance	0.8		2.0	pF	V _{CB} =10V, I _E =0, f=30MHz
f _T	Current Gain-Bandwidth Product	300			MHz	V _{CE} =12.5V, I _C =12.5mA
G _{pe}	Power Gain (Fig)	29		36	dB	V _{cc} =12.5V, I _E =-12.5mA, f=45MHz



COIL DATA
 0.20mm ϕ Cu WIRE
 L=1.2 μ H WITH M-5 CORE
 T : ①-② 3.0T
 ②-③ 8.0T
 ④-⑤ 1.0T

STATIC CHARACTERISTICS

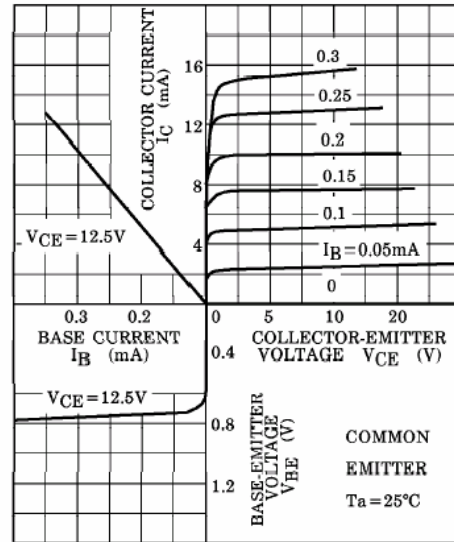


Fig. 45MHz G_{pe} TEST CIRCUIT

