

# Guangdong Yuejing High Technology CO.,LTD.

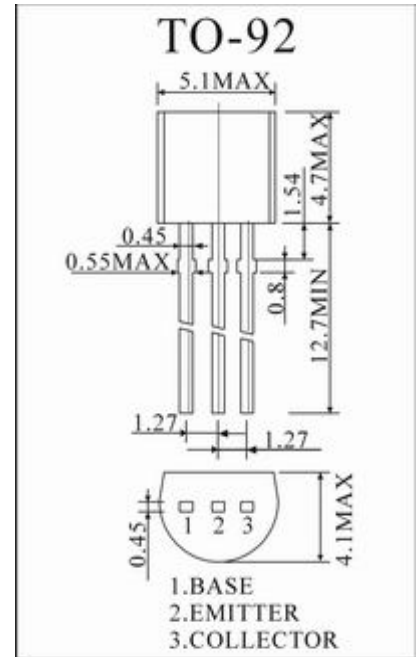
## C2717

—NPN silicon—

■■ APPLICATION: TV Final Picture IF Amplifier Application.

■■ MAXIMUM RATING (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	30	V
Collector-emitter voltage	V <sub>CEO</sub>	25	V
Emitter-base voltage	V <sub>EBO</sub>	4	V
Collector current	I <sub>C</sub>	50	mA
Collector Power Dissipation	P <sub>C</sub>	300	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Common Emitter DC Current Gain	h <sub>FE</sub>	40		240		V <sub>CE</sub> = 12.5V, I <sub>C</sub> = 12.5mA
Collector Cut-off Current	I <sub>CBO</sub>			0.1	μA	V <sub>CB</sub> = 30V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			0.1	μA	V <sub>EB</sub> = 3V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	30			V	I <sub>C</sub> = 0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	25			V	I <sub>C</sub> = 10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	4			V	I <sub>E</sub> = 0.1mA, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			0.2	V	I <sub>C</sub> = 15mA, I <sub>B</sub> = 1.5mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			1.5	V	I <sub>C</sub> = 15mA, I <sub>B</sub> = 1.5mA
Gain bandwidth product	f <sub>T</sub>	300			MHz	I <sub>C</sub> = 12.5mA, V <sub>CE</sub> = 12.5V
Common Base Output Capacitance	C <sub>ob</sub>	0.8		2.0	PF	V <sub>CB</sub> = 10V, I <sub>E</sub> =0, f = 30MHz
Power Gain	G <sub>p</sub>	28		36	dB	V <sub>CC</sub> = 12.5V, I <sub>E</sub> = 12.5mA, f = 45MHz

■■ h<sub>FE</sub> Classification

Classification

h<sub>FE</sub> 40~240