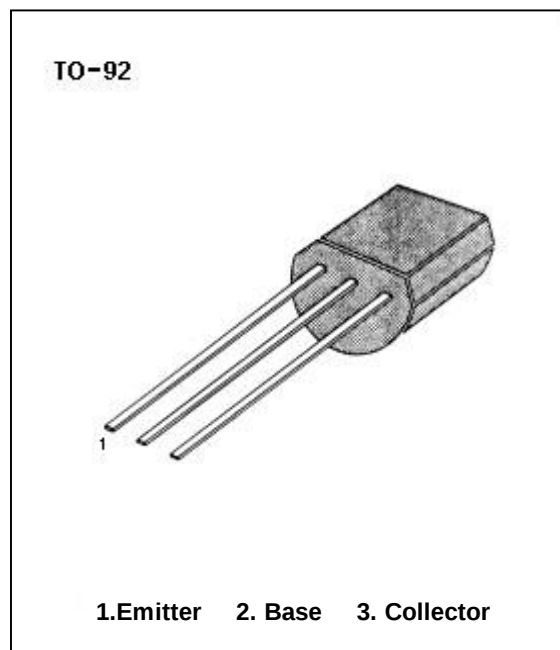


TV PIF AMPLIFIER, FM TUNER RF AMPLIFIER, MIXER, OSCILLATOR

- Collector-Emitter Voltage: $V_{CEO}=20V$
- Collector Dissipation: $P_C(max)=250mW$

Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	20	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	20	mA
Collector Dissipation	P_C	250	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C



Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = 10\mu A, I_E = 0$	30			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 5mA, I_B = 0$	20			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = 10\mu A, I_C = 0$	4			V
Collector Cut-off Current	I_{CBO}	$V_{CB} = 30V, I_E = 0$			0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 6V, I_C = 1mA$	40		240	
Base-Emitter On Voltage	$V_{CE(ON)}$	$V_{CE} = 6V, I_C = 1mA$		0.72		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10mA, I_B = 1mA$		0.1	0.3	V
Transition Frequency	f_T	$V_{CE} = 6V, I_C = 1mA$	400	600		MHz
Output Capacitance	C_{OB}	$V_{CB} = 6V, I_E = 0, f = 1MHz$		1.2		pF

h_{FE} CLASSIFICATION

Classification	R	O	Y
h_{FE}	40 ~ 80	70 ~ 140	120 ~ 240

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