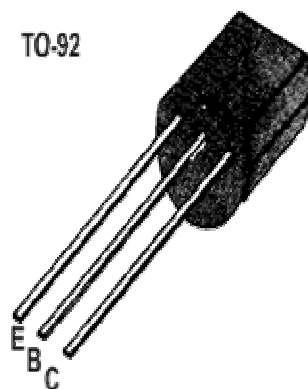


■■ APPLICATION: AM Converter, AM/FM IF Amplifier General Purpose Transistor.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	50	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _c	50	mA
Collector Power Dissipation	P _c	400	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	28		198		V _{CE} = 5 V, I _c = 1 mA
Collector Cut-off Current	I _{CBO}			0.1	μA	V _{CB} =50 V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 5 V, I _c =0
Collector-Base Breakdown Voltage	BV _{CBO}	50			V	I _c =0.1 mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	30			V	I _c =1 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	5			V	I _E = 0.1mA, I _c =0
Base-Emitter Voltage	V _{BE}		0.7	0.75	V	V _{CE} =5 V, I _c = 1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _c =10 mA, I _B =1 mA
Gain bandwidth product	f _r	100			MHz	I _c = 1 mA, V _{CE} =5 V
Common Base Output Capacitance	C _{ob}		2	3.5	PF	V _{CB} = 10V, I _E =0, f= 1 MHz
Noise Figure	N _F		2	4	dB	V _{CE} = 5 V, I _c = 1 mA, f=1 MHz, R _g = 500Ω

■■ h_{FE} Classification And Marking

Classification	D	E	F	G	H	I
h _{FE}	28~45	39~60	54~80	72~108	97~146	132~198