

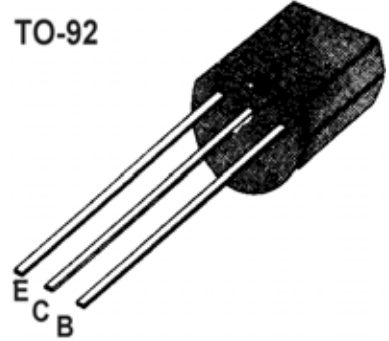
■■ APPLICATION: POWER AMPLIFIER APPLICATION,

SWITCHING APPLICATION.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	10	V
Emitter-base voltage	V _{EBO}	6	V
Collector current	I _C	2	A
Collector Power Dissipation	P _C	750	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C

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■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	140		600		V _{CE} = 1V, I _C =500 mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} =30 V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 6V, I _C =0
Collector-Base Breakdown Voltage	BV _{CBO}	30			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	10			V	I _C = 10mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	6			V	I _E = 1mA, I _C =0
Base-Emitter Voltage	V _{BE}		0.86	1.5	V	V _{CE} = 1V, I _C = 2A
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.2	0.5	V	I _C = 2A, I _B = 50mA
Gain bandwidth product	f _T		150		MHz	I _C = 0.5A, V _{CE} = 1V
Common Base Output Capacitance	C _{ob}		27		PF	V _{CB} = 10V, I _E =0, f = 1MHz

■■ h_{FE} Classification

Classification	L	M	N	P
h _{FE}	140~240	200~330	300~450	420~600