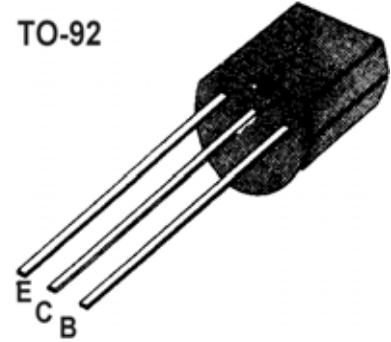


**■■ APPLICATION: POWER AMPLIFIER APPLICATION,
 SWITCHING APPLICATION.**

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-45	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_c	-500	mA
Collector Power Dissipation	P_c	625	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}	100		600		$V_{CE} = -1\text{ V}, I_c = -100\text{ mA}$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -20\text{ V}, I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB} = -5\text{ V}, I_c = 0$
Collector-Base Breakdown Voltage	BV_{CBO}	-50			V	$I_c = -0.1\text{ mA}, I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-45			V	$I_c = -1\text{ mA}, I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E = -0.1\text{ mA}, I_c = 0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.7	V	$I_c = -500\text{ mA}, I_B = -50\text{ mA}$
Gain bandwidth product	f_T	100			MHz	$I_c = -10\text{ mA}, V_{CE} = -5\text{ V}$

■■ h_{FE} Classification

Classification	O	Y	GR
h_{FE}	100~250	160~400	300~600