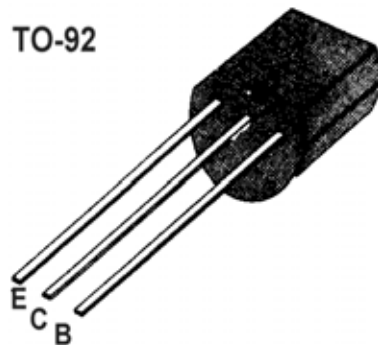


■ ■ APPLICATION: General Purpose Applications.

■ ■ MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-30	V
Collector-emitter voltage	V_{CEO}	-25	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_c	-700	mA
Collector Power Dissipation	P_c	600	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^{\circ}\text{C}$

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■ ■ ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	90		400		$V_{CE} = -1\text{V}$, $I_c = -100\text{mA}$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -30\text{V}$, $I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB} = -5\text{V}$, $I_c = 0$
Collector-Base Breakdown Voltage	BV_{CBO}	-30			V	$I_c = -0.1\text{mA}$, $I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-25			V	$I_c = -2\text{mA}$, $I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E = -0.1\text{mA}$, $I_c = 0$
Base-Emitter Voltage	V_{BE}		-0.64		V	$V_{CE} = -6\text{V}$, $I_c = -10\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.25	-0.6	V	$I_c = -700\text{mA}$, $I_B = -70\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		-0.95	-1.2	V	$I_c = -700\text{mA}$, $I_B = -70\text{mA}$
Gain bandwidth product	f_T	50	160		MHz	$I_c = -10\text{mA}$, $V_{CE} = -6\text{V}$
Common Base Output Capacitance	C_{ob}		17	40	PF	$V_{CB} = -6\text{V}$, $I_E = 0$, $f = 1\text{MHz}$

■ ■ h_{FE} Classification And Marking

Classification	M	L	K
h_{FE}	90~180	135~270	200~400