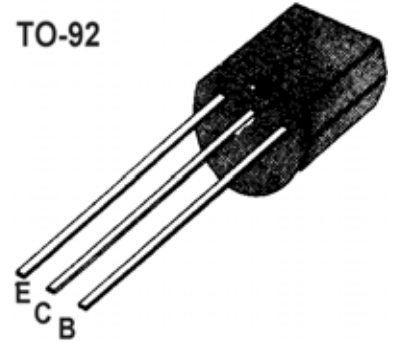


■■ APPLICATION: General Purpose Applications.

■■ MAXIMUM RATING (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	60	V
Collector-emitter voltage	V _{CEO}	40	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	500	mA
Collector Power Dissipation	P _C	600	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
Common Emitter DC Current Gain	h _{FE}	60		320		V _{CE} = 5V, I _C = 50mA
Collector Cut-off Current	I _{CBO}			1.0	μA	V _{CB} = 40V, I _E =0
Emitter Cut-off Current	I _{EBO}			1.0	μA	V _{EB} = 4V, I _C =0
Collector-Base Breakdown Voltage	BV _{CBO}	60			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	40			V	I _C = 1mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	5			V	I _E = 0.1mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.2	0.6	V	I _C = 400mA, I _B = 40mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		0.9	1.2	V	I _C = 400mA, I _B = 40mA
Gain bandwidth product	f _T		120		MHz	I _C = 10mA, V _{CE} = 10V
Common Base Output Capacitance	C _{ob}		5		PF	V _{CB} = 10V, I _E =0, f = 1MHz

■■ h_{FE} Classification

Classification	D	E	F
h _{FE}	60~120	100~200	160~320