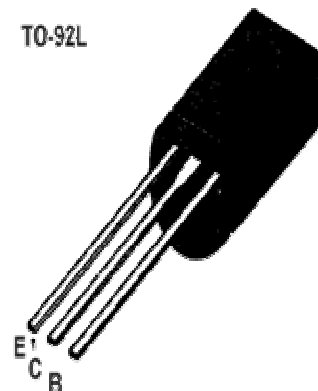


APPLICATION: Voltage Regulator, Relay Lamp Driver

Electrical Equipment Applications.

MAXIMUM RATINGS (Ta=25℃)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-60	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _c	-1	A
Collector Power Dissipation	P _c	900	mW
Junction Temperature	T _J	150	℃
Storage Temperature Range	T _{stg}	- 55~150	℃



ELECTRICAL CHARACTERISTICS (Ta=25℃)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	60		320		V _{CE} = -2 V, I _c = -50 mA
Collector Cut-off Current	I _{CBO}			-1	μA	V _{CB} = -50 V, I _E =0
Emitter Cut-off Current	I _{EBO}			-1	μA	V _{EB} = -4 V, I _c =0
Collector-Base Breakdown Voltage	BV _{CB0}	-60			V	I _c = -10 μA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	-50			V	I _c = -1 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	-5			V	I _E = -10 μA, I _c =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.2	-0.7	V	I _c = -500 mA, I _B = -50 mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		-0.85	-1.2	V	I _c = -500 mA, I _B = -50 mA
Gain bandwidth product	f _r		150		MHz	I _c = -50mA, V _{CE} = -10 V
Common Base Output Capacitance	C _{ob}		20		PF	V _{CB} = -10 V, I _E =0, f= 1 MHz

h_{FE} Classification

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