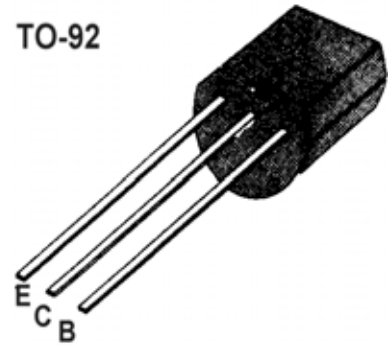


■ ■ APPLICATION: Power Amplifier Application, Power Switching Application.

■ ■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-50	V
Collector-emitter voltage	V _{CE0}	-50	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _c	-2	A
Collector Power Dissipation	P _c	1	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



■ ■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Common Emitter DC Current Gain	h _{FE}	70		240		V _{CE} = -2V, I _c =-0.5 A
Collector Cut-off Current	I _{CB0}			-1	μA	V _{CB} = -50V, I _E =0
Emitter Cut-off Current	I _{EB0}			-1	μA	V _{EB} = -5 V, I _c =0
Collector-Base Breakdown Voltage	BV _{CB0}	-50			V	I _c = -0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CE0}	-50			V	I _c = -1.0 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EB0}	-5			V	I _E = -0.1 mA, I _c =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _c = -1 A, I _B = -0.05A
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1.2	V	I _c = -1A, I _B = -0.05A
Gain bandwidth product	f _r		100		MHz	I _c = -0.5A, V _{CE} = -2 V
Common Base Output Capacitance	C _{ob}		40		PF	V _{CB} = -10V, I _E =0, f = 1 MHz
Turn on time	t _{on}		0.1		μs	I _{B1} = I _{B2} = -0.05A V _{CC} = -30V
Turn off time	t _f		0.1		μs	

■ ■ h_{FE} Classification

Classification	O	Y
h _{FE}	70~140	120~240