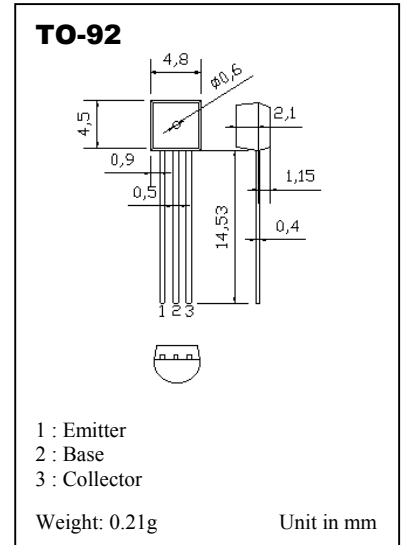


NPN PLASTIC ENCAPSULATE TRANSISTOR

MAXIMUM RATINGS (T_a = 25 °C)

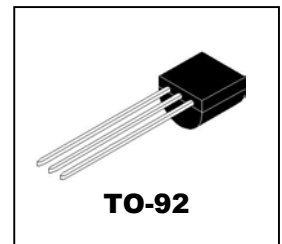
Characteristic	Symbol	Value	Unit
Collector Base Voltage	V _{CB0}	160	V
Collector Emitter Voltage	V _{CE0}	150	V
Emitter Base Voltage	V _{EB0}	5	V
Collector Current	I _C	0.6	A
Power Dissipation	P _C	0.625	W
Operation and Storage Junction Temperature Range	T _j , T _{stg}	-55 ~ 150	°C



ELECTRICAL CHARACTERISTICS (T_a = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =120V, I _E =0	-	-	0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0	-	-	0.1	μA
Collector Base Breakdown Voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	160	-	-	V
Collector Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	150	-	-	V
Emitter Base Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	5	-	-	V
DC Current Gain	h _{FE} (1)	V _{CE} =5V, I _C =1mA	80	-	-	-
	h _{FE} (2)	V _{CE} =5V, I _C =10mA	80	-	250	-
	h _{FE} (3)	V _{CE} =5V, I _C =50mA	50	-	-	-
Collector Emitter Saturation Voltage	V _{CE(sat)}	I _C =50mA, I _B =5mA	-	-	0.5	V
Base Emitter Saturation Voltage	V _{BE(sat)}	I _C =50mA, I _B =5mA	-	-	1	V
Transition Frequency	f _T	V _{CE} =5V, I _C =10mA f=30MHz	100	-	300	MHz

NPN PLASTIC ENCAPSULATE AMPLIFIER



CLASSIFICATION OF h_{FE}(2)

Rank	A	B	C
Range	80 to 160	120 to 180	150 to 250

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