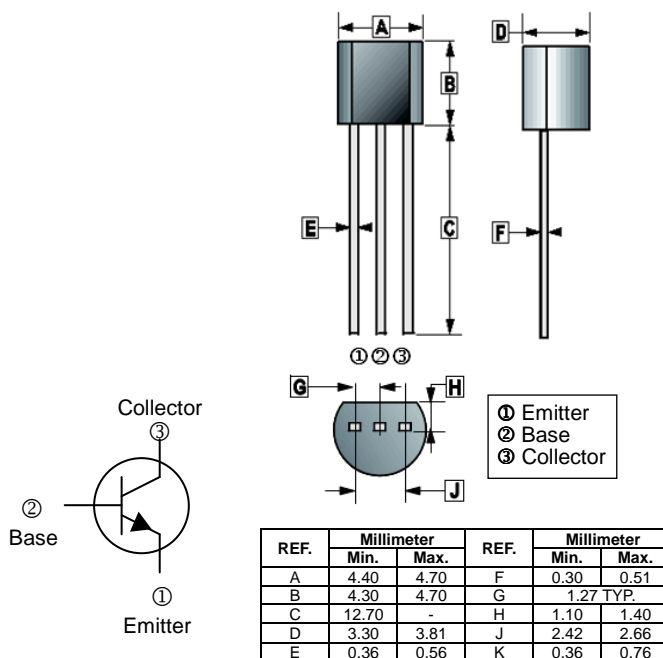


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Power dissipation

TO-92



MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	40	V
Collector - Emitter Voltage	V _{CEO}	25	V
Emitter - Base Voltage	V _{EBO}	6	V
Collector Current - Continuous	I _C	0.8	A
Collector Power Dissipation	P _C	625	mW
Junction, Storage Temperature	T _J , T _{STG}	125, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Test Conditions	Symbol	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	I _C = 100μA, I _E = 0	V _{(BR)CBO}	40	-	-	V
Collector-Emitter Breakdown Voltage ¹	I _C = 1mA, I _B = 0	V _{(BR)CEO}	25	-	-	V
Emitter-Base Breakdown Voltage	I _E = 100μA, I _C = 0	V _{(BR)EBO}	6	-	-	V
Collector Cut-Off Current	V _{CB} = 35V, I _E = 0	I _{CBO}	-	-	0.1	μA
Emitter Cut-Off Current	V _{CE} = 20V, I _B = 0	I _{CEO}	-	-	0.1	μA
DC Current Gain	V _{CE} = 1V, I _C = 5mA	h _{FE1}	45	-	-	
	V _{CE} = 1V, I _C = 100mA	h _{FE2}	80	-	400	
	V _{CE} = 1V, I _C = 800mA	h _{FE3}	40	-	-	
Collector-Emitter Saturation Voltage	I _C = 800mA, I _B = 80mA	V _{CE(sat)}	-	-	0.5	V
Base-Emitter Saturation Voltage	I _C = 800mA, I _B = 80mA	V _{BE(sat)}	-	-	1.2	V
Transition frequency	V _{CE} = 6V, I _C = 20mA, f = 30MHz	f _T	150	-	-	MHz

Note:

1. Pulse test : pulse width ≤ 300 S, duty cycle ≤ 2%.