

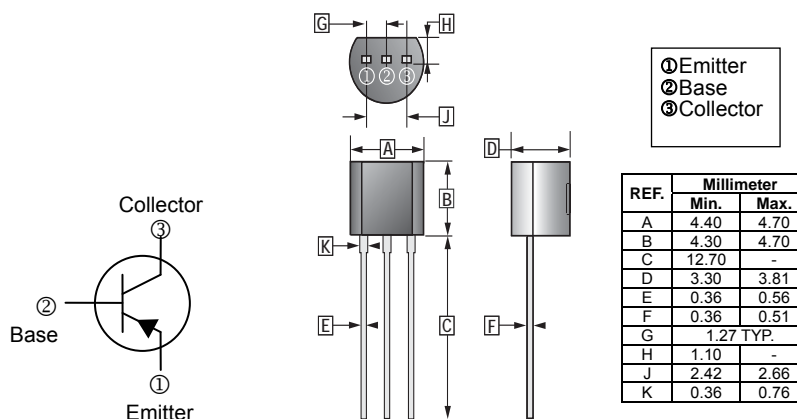
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- General Purpose Switching Application

TO-92



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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CB0}	-50	V
Collector to Emitter Voltage	V _{CEO}	-40	V
Emitter to Base Voltage	V _{EBO}	-5	V
Collector Current - Continuous	I _C	-1.5	A
Collector Power Dissipation	P _C	1	W
Thermal resistance, Junction to ambient	R _{θJA}	125	°C / W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	V _{(BR)CB0}	-50	-	-	V	I _C = -1mA, I _E = 0
Collector to Emitter Breakdown Voltage	V _{(BR)CEO}	-40	-	-	V	I _C = -10mA, I _B = 0
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	-5	-	-	V	I _E = -1mA, I _C = 0
Collector Cut-Off Current	I _{CB0}	-	-	-0.1	μA	V _{CB} = -50V, I _E = 0
Collector Cut-Off Current	I _{CEO}	-	-	-1	μA	V _{CE} = -40V, I _E = 0
Emitter Cut-Off Current	I _{EBO}	-	-	-0.1	μA	V _{EB} = -5V, I _C = 0
DC Current Gain	h _{FE(1)}	50	-	250		V _{CE} = -1V, I _C = -1A
	h _{FE(2)}	55	-	-		V _{CE} = -1V, I _C = -10mA
	h _{FE(3)}	60	-	-		V _{CE} = -1V, I _C = -100mA
Collector to Emitter Saturation Voltage	V _{CE(sat)}	-	-	-0.5	V	I _C = -1A, I _B = -100mA
Base to Emitter Voltage	V _{BE}	-	-	-1.2	V	V _{CE} = -1V, I _C = -1A
Collector Output Capacitance	C _{ob}	-	-	30	pF	V _{CB} = -10V, I _E = 0A, f = 1MHz