

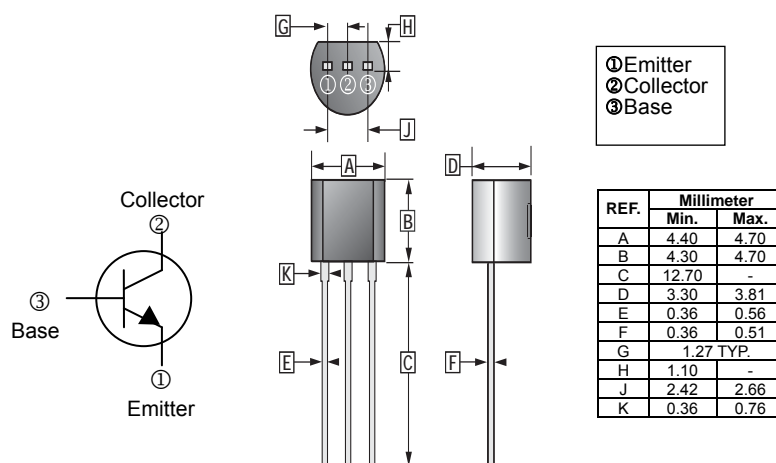
RoHS Compliant Product

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

## FEATURES

- General Purpose Amplifier Transistor

TO-92



## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CB0}$	25	V
Collector to Emitter Voltage	$V_{CE0}$	25	V
Emitter to Base Voltage	$V_{EB0}$	5	V
Collector Current - Continuous	$I_C$	0.5	A
Collector Power Dissipation	$P_C$	625	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	200	$^\circ\text{C} / \text{W}$
Junction, Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	25	-	-	V	$I_C=0.01\text{mA}, I_E=0\text{A}$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	25	-	-	V	$I_C=10\text{mA}, I_B=0\text{A}$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=0.01\text{mA}, I_C=0\text{A}$
Collector Cut-Off Current	$I_{CBO}$	-	-	0.1	$\mu\text{A}$	$V_{CB}=25\text{V}, I_E=0\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	-	-	0.1	$\mu\text{A}$	$V_{EB}=5\text{V}, I_C=0\text{mA}$
DC Current Gain	$h_{FE}$	100	-	500		$V_{CE}=10\text{V}, I_C=10\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.25	V	$I_C=10\text{mA}, I_B=1\text{mA}$
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	0.5	-	1.2	V	$V_{CE}=10\text{V}, I_C=10\text{mA}$