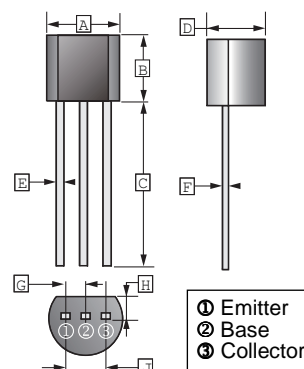
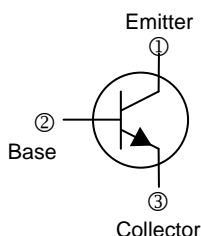


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- General Purpose Amplifier

TO-92



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.70	F	0.30	0.51
B	4.30	4.70	G	1.27 TYP.	
C	12.70	-	H	1.10	1.40
D	3.30	3.81	J	2.42	2.66
E	0.36	0.56	K	0.36	0.76

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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CB0}	60	V
Collector to Emitter Voltage	V_{CE0}	60	V
Emitter to Base Voltage	V_{EB0}	4	V
Collector Current - Continuous	I_C	0.5	A
Collector Power Dissipation	P_C	625	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	200	$^\circ\text{C/W}$
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	$V_{(BR)CB0}$	60	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CE0}$	60	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EB0}$	4	-	-	V	$I_E=100\mu\text{A}, I_C=0$
Collector Cut-Off Current	I_{CB0}	-	-	0.1	μA	$V_{CB}=60\text{V}, I_E=0$
Collector Cut-Off Current	I_{CE0}	-	-	0.1	μA	$V_{CE}=60\text{V}, I_B=0$
Emitter Cut-Off Current	I_{EB0}	-	-	1	μA	$V_{EB}=3\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	100	-	-		$V_{CE}=1\text{V}, I_C=100\text{mA}$
	$h_{FE(2)}$	100	-	-		$V_{CE}=1\text{V}, I_C=10\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.25	V	$I_C=100\text{mA}, I_B=10\text{mA}$
Base to Emitter Voltage	$V_{BE(sat)}$	-	-	1.2	V	$I_C=100\text{mA}, V_{CE}=1\text{V}$
Transition Frequency	f_T	100	-	-	MHz	$V_{CE}=2\text{V}, I_C=10\text{mA}, f=100\text{MHz}$