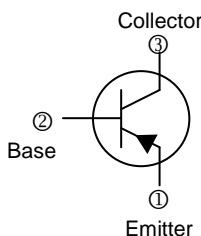
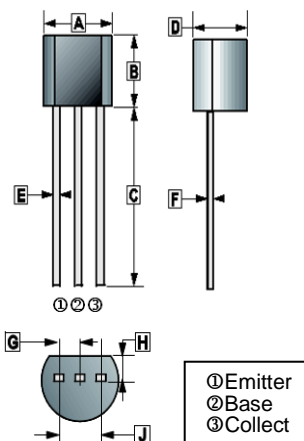


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Switching and amplifier applications

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	14.5	H	1.10	1.40
D	3.30	3.81	J	2.42	2.66
E	0.36	0.56			

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

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V _{CBO}	-80	V
Collector to Emitter Voltage	V _{CEO}	-60	V
Emitter to Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-2	A
Collector Dissipation	P _C	625	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	200	°C / W
Junction and 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 Condition
Collector to Base Breakdown Voltage	V _{(BR)CBO}	-80	-	-	V	I _C = -100μA, I _E =0
Collector to Emitter Breakdown Voltage ¹	V _{(BR)CEO}	-60	-	-	V	I _C = -10mA, I _B =0
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	-5	-	-	V	I _E = -10μA, I _C =0
Collector Cut-Off Current	I _{CBO}	-	-	-0.1	μA	V _{CB} = -80V, I _E =0
Emitter Cut-Off Current	I _{EBO}	-	-	-0.1	μA	V _{EB} = -4V, I _C =0
DC Current Gain ¹	h _{FE}	75	-	-	V	V _{CE} = -2V, I _C = -50mA
		75	-	-		V _{CE} = -2V, I _C = -500mA
		75	-	-		V _{CE} = -2V, I _C = -1A
		40	-	-		V _{CE} = -2V, I _C = -2A
Collector to Emitter Saturation Voltage ¹	V _{CE(sat)}	-	-	-0.5	V	I _C = -2A, I _B = -200mA
		-	-	-0.3		I _C = -1A, I _B = -100mA
Base to Emitter Saturation Voltage ¹	V _{BE(sat)}	-	-	-1.2	V	I _C = -1A, I _B = -100mA
Base to Emitter Voltage ¹	V _{BE(on)}	-	-	-1	V	I _C = -1A, V _{CE} = -2V
Transition Frequency	f _T	-	75	-	MHz	V _{CE} = -5V, I _C = -50mA, f=100MHz

Notes:

1. Pulse test: pulse width ≤ 300μs, duty cycle=2.0%.

CHARACTERISTIC CURVES

Static Characteristic

