

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

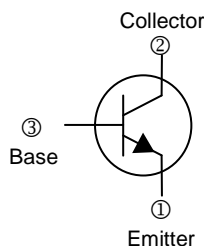
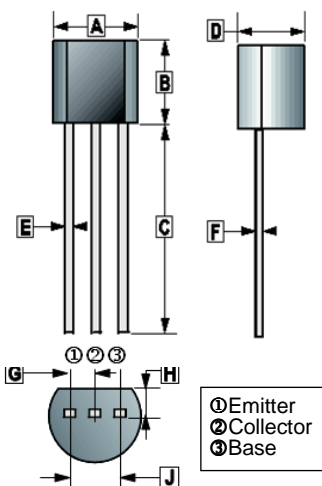
FEATURES

- Complementary to KTA1271

CLASSIFICATION OF h_{FE} (1)

Product-Rank	KTC3203-O	KTC3203-Y
Range	100~200	160~320

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 specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CB0}	35	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	800	mA
Collector Power Dissipation	P_C	625	mW
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	$V_{(BR)CB0}$	35	-	-	V	$I_C=0.1\text{mA}, I_B=0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=10\text{mA}, I_B=0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	$I_E=0.1\text{mA}, I_C=0$
Collector Cut - Off Current	I_{CB0}	-	-	0.1	μA	$V_{CB}=35\text{V}, I_E=0$
Collector Cut - Off Current	I_{CEO}	-	-	0.2	μA	$V_{CE}=25\text{V}, I_B=0$
Emitter Cut - Off Current	I_{EBO}	-	-	0.1	μA	$V_{EB}=5\text{V}, I_C=0$
DC Current Gain	$h_{FE(1)}$	100	-	320		$V_{CE}=1\text{V}, I_C=100\text{mA}$
	$h_{FE(2)}$	35	-	-		$V_{CE}=1\text{V}, I_C=700\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	$I_C=500\text{mA}, I_B=20\text{mA}$
Base to Emitter Voltage	V_{BE}	-	-	0.8	V	$V_{CE}=1\text{V}, I_C=10\text{mA}$
Collector Output Capacitance	C_{ob}	-	13	-	pF	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$
Transition Frequency	f_T	-	120	-	MHz	$V_{CE}=5\text{V}, I_C=10\text{mA}$