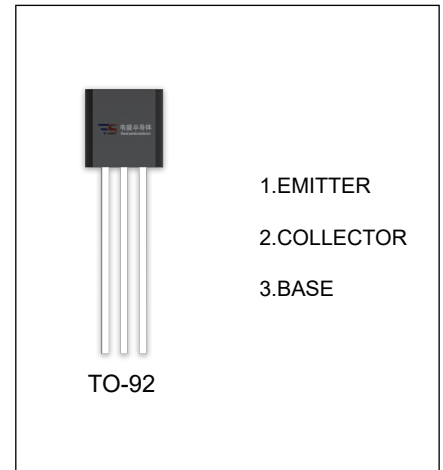


## KTC3203 TRANSISTOR (NPN)

### FEATURES

- Complementary to KTA1271



### ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTC3203	T, -92	Bulk	1000pcs/Bag
KTC3203-TA	T, -92	Tape	2000pcs/Box

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector-Base Voltage	35	V
V <sub>CEO</sub>	Collector-Emitter Voltage	30	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current -Continuous	0.8	A
P <sub>D</sub>	Collector Power Dissipation	625	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	200	°C /W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150	°C

**$T_a=25\text{ }^\circ\text{C}$  unless otherwise specified**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 0.1\text{mA}, I_B=0$	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 0.1\text{mA}, I_C=0$	5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}= 35\text{V}, I_E=0$			0.1	$\mu\text{A}$
Collector cut-off current	$I_{CEO}$	$V_{CE}= 25\text{V}, I_B=0$			0.2	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}= 5\text{V}, I_C=0$			0.1	$\mu\text{A}$
DC current gain	$h_{FE(1)}$	$V_{CE}=1\text{V}, I_C= 100\text{mA}$	100		320	
	$h_{FE(2)}$	$V_{CE}=1\text{V}, I_C= 700\text{mA}$	35			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C= 500\text{mA}, I_B= 20\text{mA}$			0.5	V
Base-emitter voltage	$V_{BE}$	$V_{CE}= 1\text{V}, I_C= 10\text{mA}$			0.8	V
Transition frequency	$f_T$	$V_{CE}= 5\text{V}, I_C= 10\text{mA}$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10\text{V}, I_E= 0, f=1\text{MHz}$		13		pF

**CLASSIFICATION OF  $h_{FE(1)}$** 

Rank	O	Y
Range	100-200	160-320

