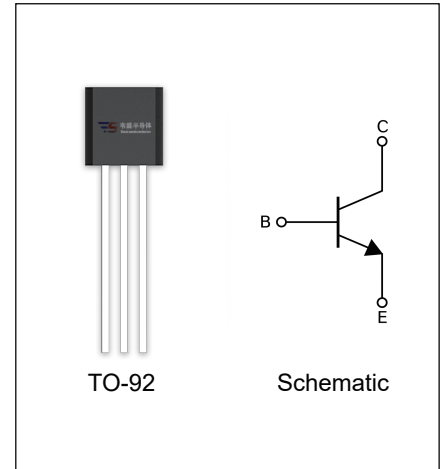


KTC3203 TRANSISTOR (NPN)

FEATURES

- Complementary to KTA1271



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	35	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	0.8	A
P _D	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	200	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

T_a=25 °C unless otherwise specified

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

CLASSIFICATION OF $h_{FE(1)}$

Rank	O	Y
Range	100-200	160-320

