Elektronische Bauelemente

KTC3203

0.8A , 35V

NPN Plastic-Encapsulated Transistor

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

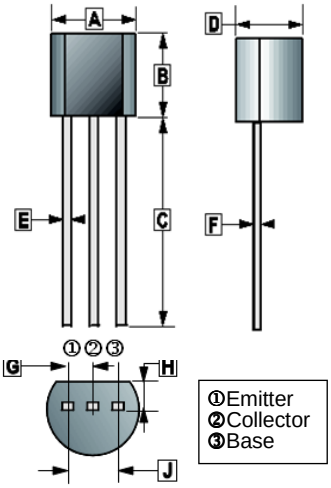
FEATURES

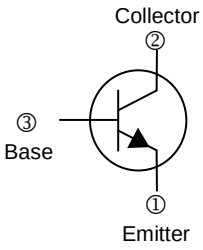
- Complementary to KTA1271

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℃ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	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	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	35	-	-	V	I_C=0.1mA, I_B=0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	I_C=10mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	5	-	-	V	I_E=0.1mA, I_C=0
Collector Cut – Off Current	I_{CBO}	-	-	0.1	μA	V_{CB}=35V, I_E=0
Collector Cut – Off Current	I_{CEO}	-	-	0.2	μA	V_{CE}=25V, I_B=0
Emitter Cut – Off Current	I_{EBO}	-	-	0.1	μA	V_{EB}=5V, I_C=0
DC Current Gain	$h_{FE\ (1)}$	100	-	320		V_{CE}=1V, I_C=100mA
	$h_{FE\ (2)}$	35	-	-		V_{CE}=1V, I_C=700mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.5	V	I_C=500mA, I_B=20mA
Base to Emitter Voltage	V_{BE}	-	-	0.8	V	V_{CE}=1V, I_C=10mA
Collector Output Capacitance	C_{ob}	-	13	-	pF	V_{CB}=10V, I_E=0, f=1MHz
Transition Frequency	f_T	-	120	-	MHz	V_{CE}=5V, I_C=10mA