Elektronische Bauelemente

KTA1271

-0.8A , -35V

PNP Plastic Encapsulated Transistor

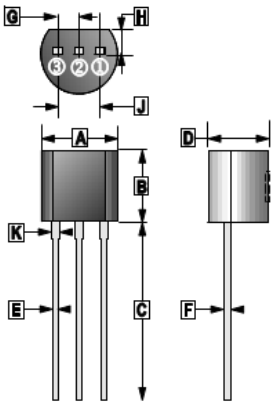
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURE

- High DC Current Gain
- Complementary to KTC3203

TO-92

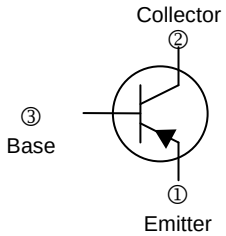


① Emitter
② Collector
③ Base

REF.	Millimeter	
	Min.	Max.
A	4.40	4.70
B	4.30	4.70
C	12.70	-
D	3.30	3.81
E	0.36	0.56
F	0.36	0.51
G	1.27 TYP.	
H	1.10	-
J	2.42	2.66
K	0.36	0.76

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

Product-Rank	KTA1271-O	KTA1271-Y
Range	100~200	160~320



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

Parameter	Symbol	Ratings	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
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	200	℃ / W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-35	-	-	V	I_C= -0.1mA, I_E=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	$V_{CE(sat)}$	-	-	-0.7	V	I_C= -500mA, I_B= -20mA
Base to Emitter Voltage	V_{BE}	-	-	-0.8	V	V_{CE}= -1V, I_C= -10mA
Transition Frequency	f_T	-	120	-	MHz	V_{CE}= -5V, I_C= -10mA
Collector Output Capacitance	C_{ob}	-	19	-	pF	V_{CB}= -10V, I_E=0, f=1MHz