KTA1271   TRANSISTOR (PNP)

FEATURES

- High DC Current Gain
- Complementary to KTC3203

1.EMITTER

2.COLLECTOR

3.BASE
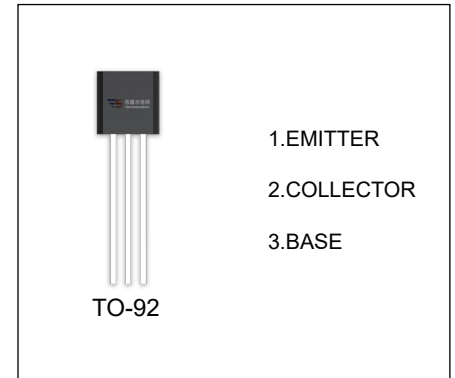
TO-92

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTA1271	TO-92	Bulk	1000pcs/Bag
KTA1271-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (Ta=25℃ 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	-800	mA
P_D	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	200	℃ /W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

T$_a$=25 ℃ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V$_{(BR)CBO}$	I$_C$= -0.1mA ,I$_E$=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$_C$=-500mA,I$_B$=-20mA			-0.7	V
Base-emitter voltage	V$_{BE}$	V$_{CE}$=-1V, I$_C$=-10mA			-0.8	V
Transition frequency	f$_T$	V$_{CE}$=-5V,I$_C$=-10mA		120		MHz
Collector Output Capacitance	C$_{ob}$	V$_{CB}$=-10V, I$_E$=0, f=1MHz		19		pF

CLASSIFICATION OF h$_{FE(1)}$

RANK	O	Y
RANGE	100-200	160-320

Static Characteristic

h_{FE} — I_C

V_{CEsat} — I_C

V_{BEsat} — I_C

I_C — V_{BE}

C_{ob} / C_{ib} — V_{CB} / V_{EB}

P_C — T_a