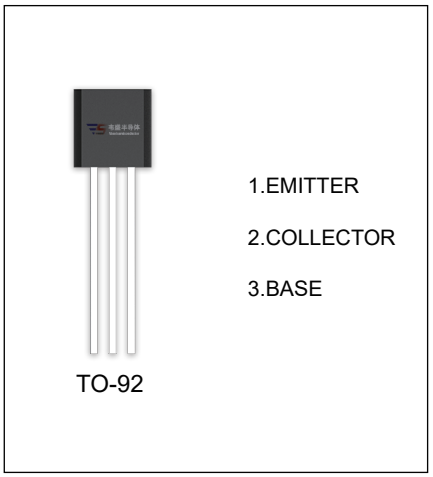
KTA1270 TRANSISTOR (PNP)



FEATURES

- General Purpose Application Switching Application

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KTA1270	TO-92	Bulk	1000pcs/Bag
KTA1270-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=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	-500	mA
P_D	Collector Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250	℃ /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= -100μA, I_E=0	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C= -1mA , I_B=0	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= -100μA, I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}= -35 V , I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}= -5 V , I_C=0			-0.1	μA
DC current gain	h_{FE1}	V_{CE}=-1 V, I_C= -100mA	70		240	
	h_{FE2}	V_{CE}=-6 V, I_C= -400mA	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C= -100mA, I_B= -10mA			-0.25	V
Base-emitter voltage	$V_{BE(on)}$	V_{CE}= -1V, I_C= -100mA			-1	V
Transition frequency	f_T	V_{CE}=-6 V, I_C= -20mA f =100MHz		200		MHz
Collector output capacitance	C_{ob}	V_{CB}=-6V,I_E=0,f=1MHz		13		pF

CLASSIFICATION OF h_{FE}

Rank		O	Y
Range	$h_{FE(1)}$	70-140	120-240
	$h_{FE(2)}$	25(min)	40(min)