

FEATURES

- Complementary To KTC3875.
- Excellent HFELinearity.
- Low noise.

KTA1504(PNP)

Maximum Ratings (TA=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CB0}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _C	-0.15	A
Collector Power dissipation	P _C	0.15	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55to +150	°C

ELECTRICAL CHARACTERISTICS (@ Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _C =-100μA, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	I _{CB0}	V _{CB} =-50V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V, I _C =-2mA	70		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA		-0.1	-0.3	V
Transition frequency	f _T	V _{CE} =-10V, I _C =-1mA	80			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		4.0	7.0	pF
Noise figure	NF	V _{CE} =-6V, I _C =-0.1mA, F=1KHz, R _g =10K		1.0	10	dB

CLASSIFICATION OF h_{FE}

Rank	O	Y	G
Range	70-140	120-240	200-400
Marking	ASO	ASY	ASG

KTA1504 Typical Characteristics

