FEATURES

- Complementary To KTC3875.
- Excellent HFE Linearity.
- Low noise.

KTA1504(PNP)



1. BASE
2. EMITTER
3. COLLECTO

SOT-23

Maximum Ratings (TA=25 ℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-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	℃
Storage Temperature	Tstg	-55to +150	℃

ELECTRICAL CHARACTERISTICS (@ Ta=25℃ unless otherwise specified)

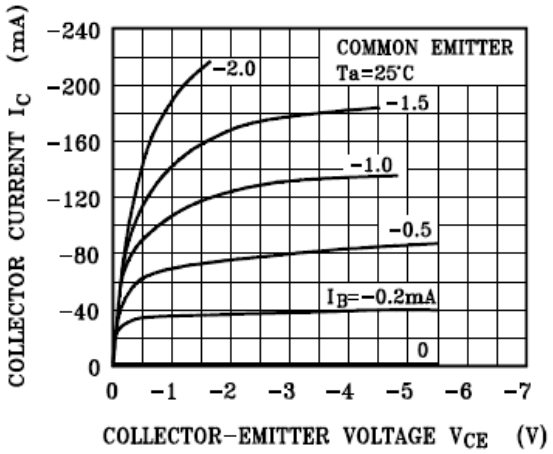
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	I_C=-100μA,I_E=0	-50			V
Collector-emitter breakdown voltage	V_{CEO}	I_C=-1mA,I_B=0	-50			V
Emitter-base breakdown voltage	V_{EBO}	I_E=-100μA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-50V,I_E=0			-0.1	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	Cob	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,Rg=10KΩ		1.0	10	dB

CLASSIFICATION OF h_{FE}

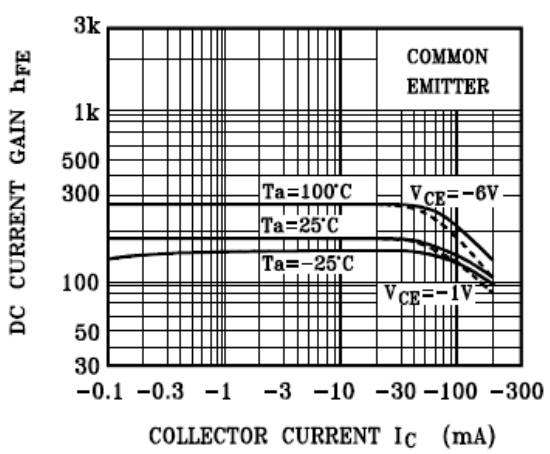
Rank	O	Y	G
Range	70-140	120-240	200-400
Marking	ASO	ASY	ASG

KTA1504 Typical Characteristics

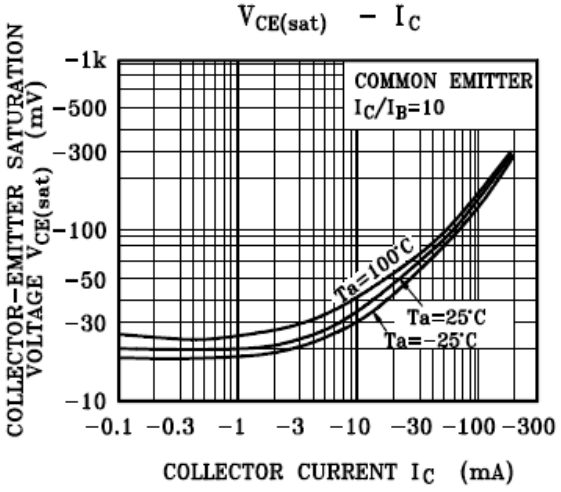
I_C – V_{CE}



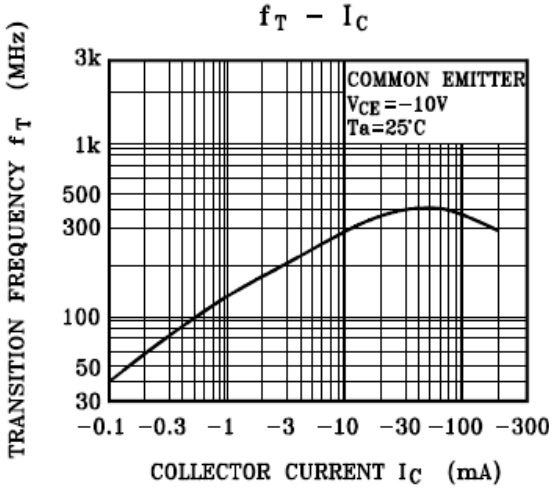
h_{FE} – I_C



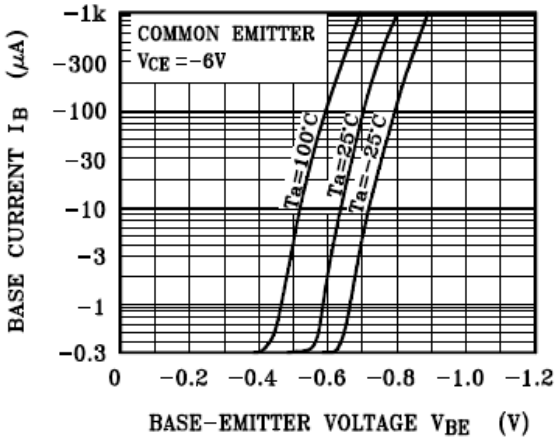
$V_{CE(sat)}$ – I_C



f_T – I_C



I_B – V_{BE}



P_C – Ta

