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KTA1505 TRANSISTOR (PNP)

SOT-23 Plastic-Encapsulate Transistors

产品规格书

承认书

客户确认：				公司签章：
部门	工程部	品保部	采购部	
签名				
日期				

SHENZHEN HAOCHANG SEMICONDUCTOR CO.,LTD.

SOT-23 Plastic-Encapsulate Transistors

KTA1505 TRANSISTOR（PNP）

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR

FEATURES

· **Excellent h_{FE} linearity:**

· **Complementary to KTC3876**

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
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_C	Collector Power Dissipation	150	mW
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55-150	℃

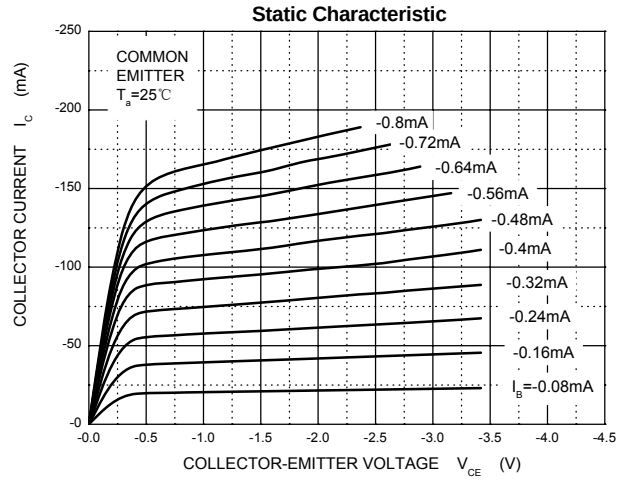
ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

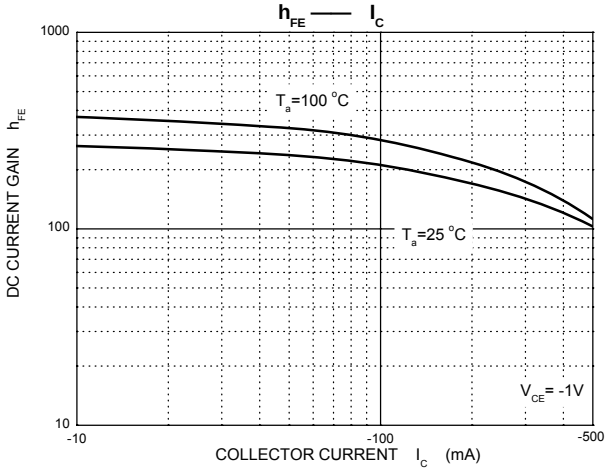
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-100μA,I_E=0	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-1mA,I_B=0	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-100μA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-35V,I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V,I_C=0			-0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=-1V,I_C=-100mA	70		400	
	$h_{FE(2)}$	V_{CE}=-6V,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}	V_{CE}=-1V,I_C=-100mA			-1	V
Transition frequency	f_T	V_{CE}=-6V,I_C=-20mA		200		MHz
Collector output capacitance	C_{ob}	V_{CB}=-6V,I_E=0,f=1MHz		13		pF

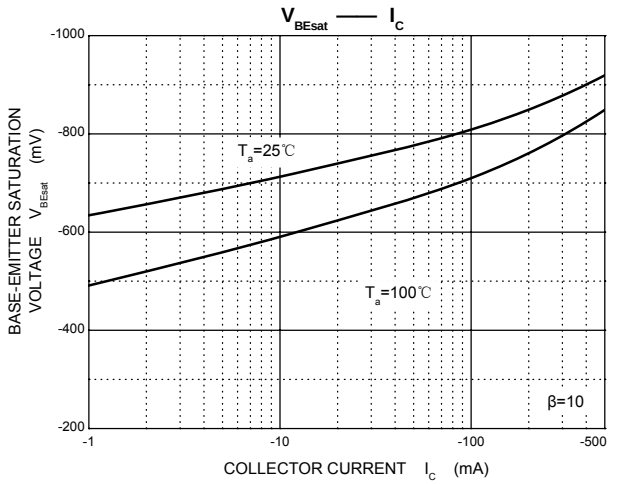
CLASSIFICATION OF $h_{FE(1)}$

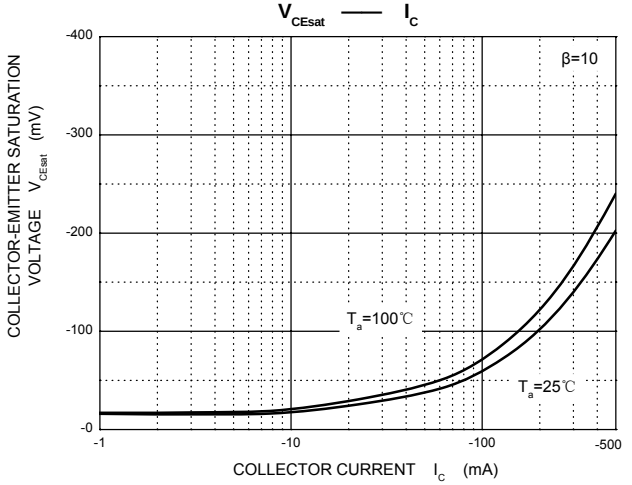
Rank	O	Y	GR
Range	70-140	120-240	200-400
Marking	AZO	AZY	AZG

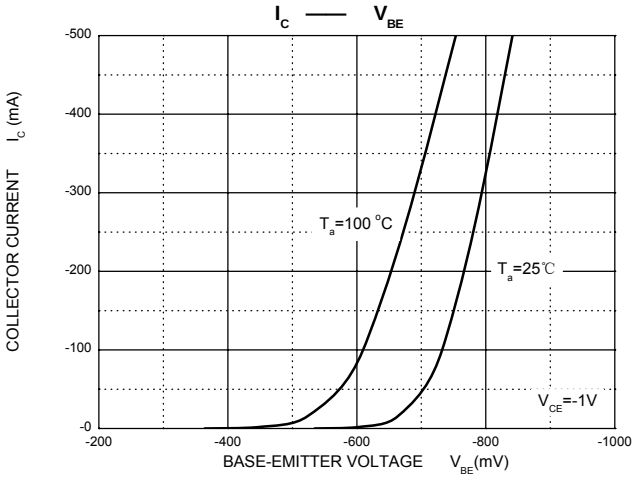
Typical Characteristics

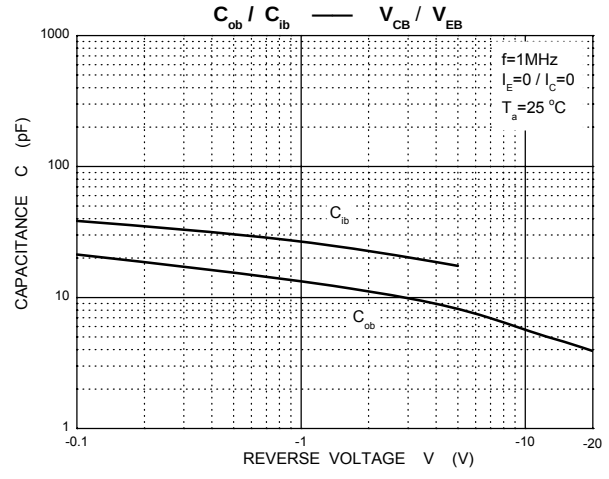


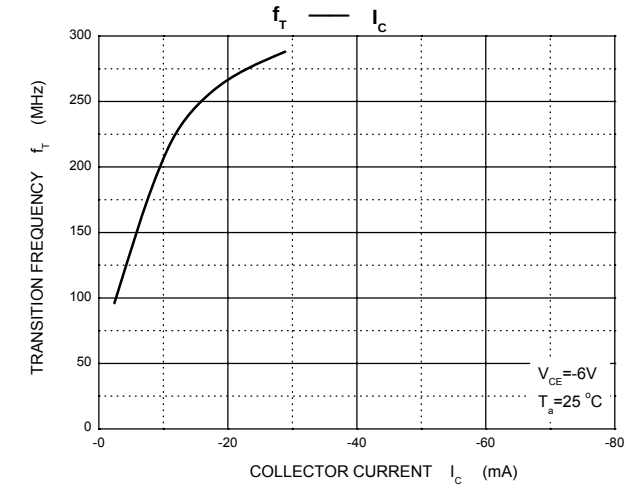


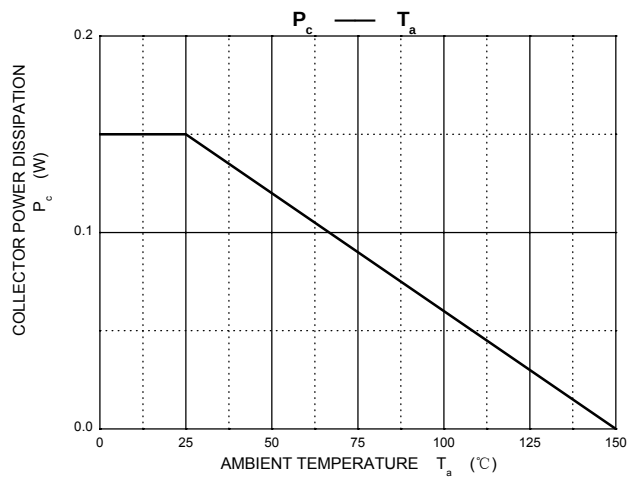




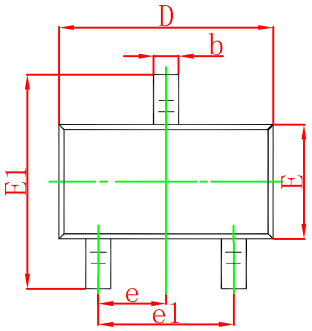


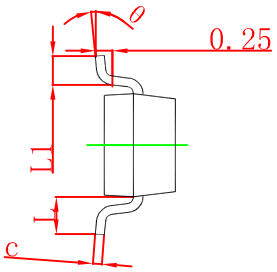


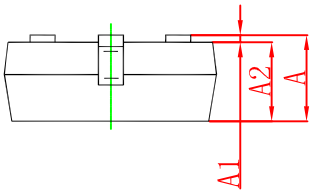




SOT-23 Package Outline Dimensions

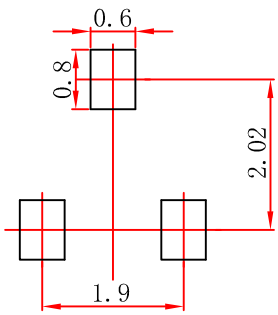






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.