

SOT-23 Plastic-Encapsulate Transistors

KTA1505 TRANSISTOR (PNP)

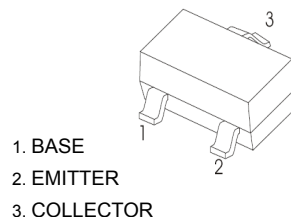
FEATURES

- Excellent h_{FE} linearity:
- Complementary to KTC3876

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ 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_C	Collector Power Dissipation	150	mW
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55-150	$^{\circ}\text{C}$

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ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0$	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-35\text{V}, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}, I_C=0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-1\text{V}, I_C=-100\text{mA}$	70		400	
	$h_{FE(2)}$	$V_{CE}=-6\text{V}, I_C=-400\text{mA}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$			-0.25	V
Base-emitter voltage	V_{BE}	$V_{CE}=-1\text{V}, I_C=-100\text{mA}$			-1	V
Transition frequency	f_T	$V_{CE}=-6\text{V}, I_C=-20\text{mA}$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB}=-6\text{V}, I_E=0, f=1\text{MHz}$		13		pF

CLASSIFICATION OF $h_{FE(1)}$

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