

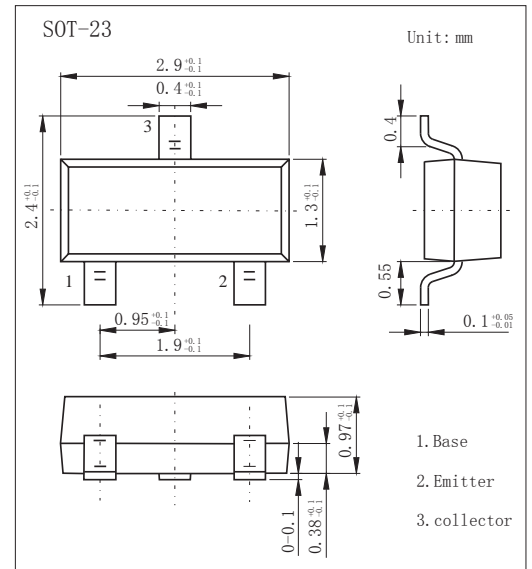
SOT-23 Plastic-Encapsulate Transistors

Features

- Excellent hFE Linearity
- Complementary to KTC3876/KTC3876S
- PNP Transistors

MECHANICAL DATA

- Case style:SOT-23molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-35	V
Collector - Emitter Voltage	V_{CE0}	-30	
Emitter - Base Voltage	V_{EB0}	-5	
Collector Current - Continuous	I_C	-500	mA
Base Current	I_B	-50	
Collector Power Dissipation $T_c = 25^\circ\text{C}$	P_C	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{stg}	-55 to 150	

PACKAGE INFORMATION

Device	Package	Shipping
KTA1505	SOT-23	3000/Tape&Reel

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -100 \mu\text{A}, I_E = 0$	-35			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -1 \text{ mA}, I_B = 0$	-30			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -35\text{V}, I_E = 0$			-0.1	uA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100\text{mA}, I_B = -10\text{mA}$			-0.25	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100\text{mA}, I_B = -10\text{mA}$			-1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$			-1	
DC current gain	hFE	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$	70		400	
		$V_{CE} = -6\text{V}, I_C = -400\text{mA}$	O	25		
			Y	40		
Collector output capacitance	C_{ob}	$V_{CB} = -6\text{V}, I_E = 0, f = 1\text{MHz}$		13		pF
Transition frequency	f_T	$V_{CE} = -6\text{V}, I_C = -20\text{mA}$		200		MHz

Classification of hfe(1)

Type	KTA1505-O	KTA1505-Y	KTA1505-G
Range	70-140	120-240	200-400
Marking	AZO	AZY	AZG



RATINGS AND CHARACTERISTIC CURVES

■ Typical Characteristics

