

PNP Silicon Epitaxial Planar Transistor

KTA1505

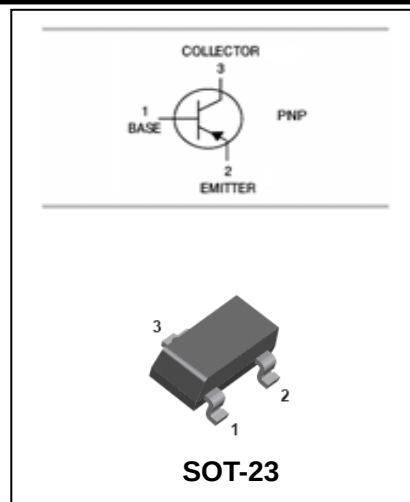
FEATURES

- Complementary to KTC3876
- Excellent h_{FE} linearity
- Low noise
- RoHS compliant with Halogen-free

HF

APPLICATIONS

- General purpose application, switching application



ORDERING INFORMATION

Type No.	Marking	Package Code
KTA1505-O	AZO	SOT-23
KTA1505-Y	AZY	SOT-23
KTA1505-G	AZG	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

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, T_{STG}	Junction and Storage Temperature	-55 to +150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-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}	$V_{CE} = -1V, I_C = -100mA$ $V_{CE} = -6V, I_C = -400mA$	70 25		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$		-0.1	-0.25	V
Base-emitter saturation voltage	V_{BE}	$V_{CE} = -1V, I_C = -100mA$		-0.8	-1.0	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

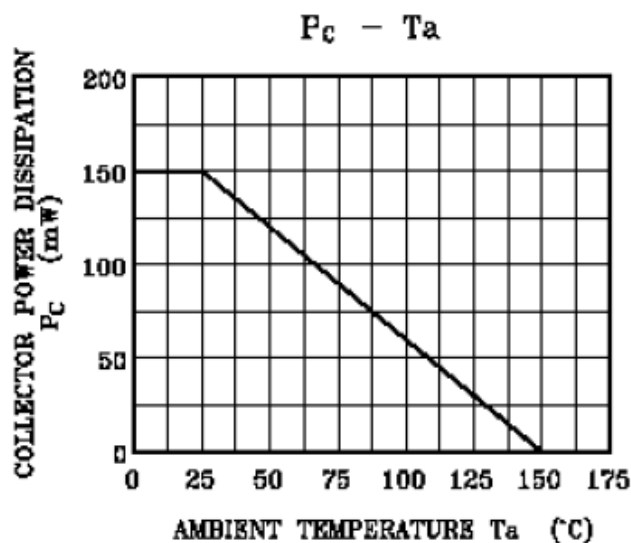
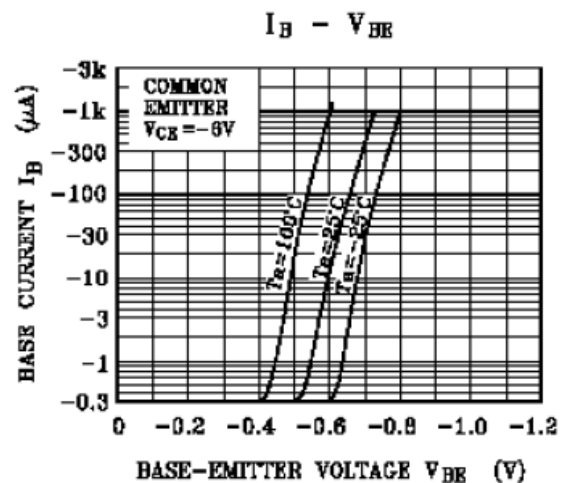
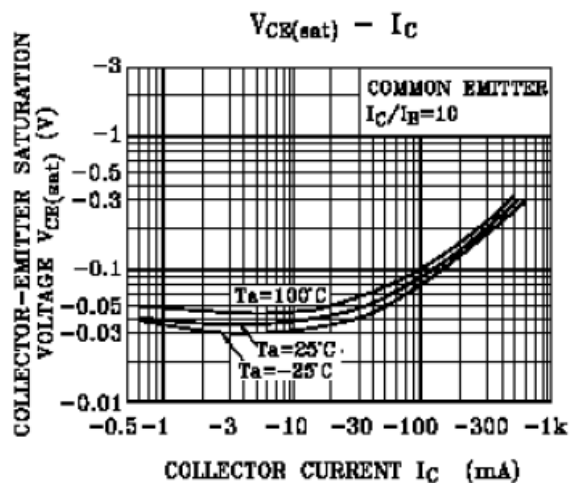
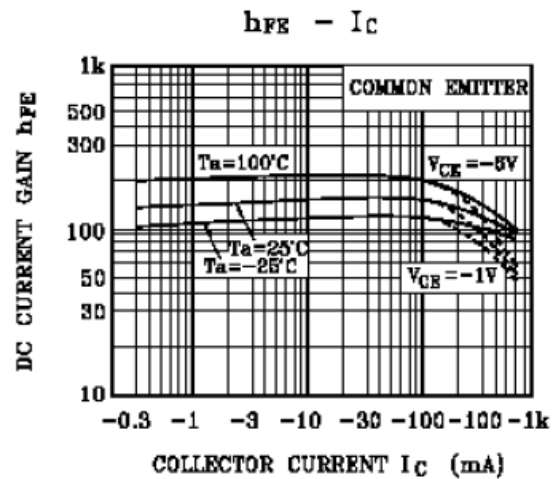
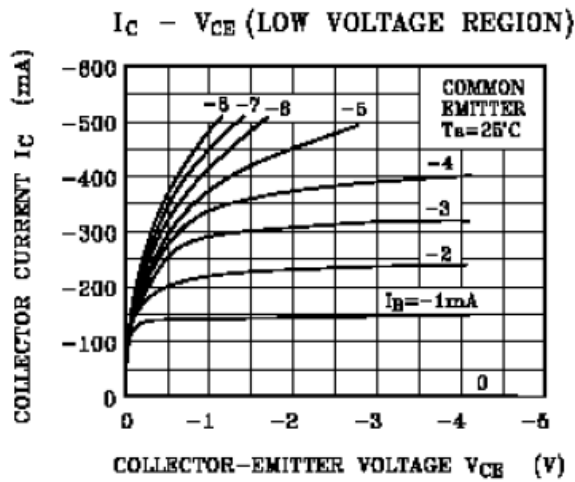
CLASSIFICATION OF h_{FE}

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

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified



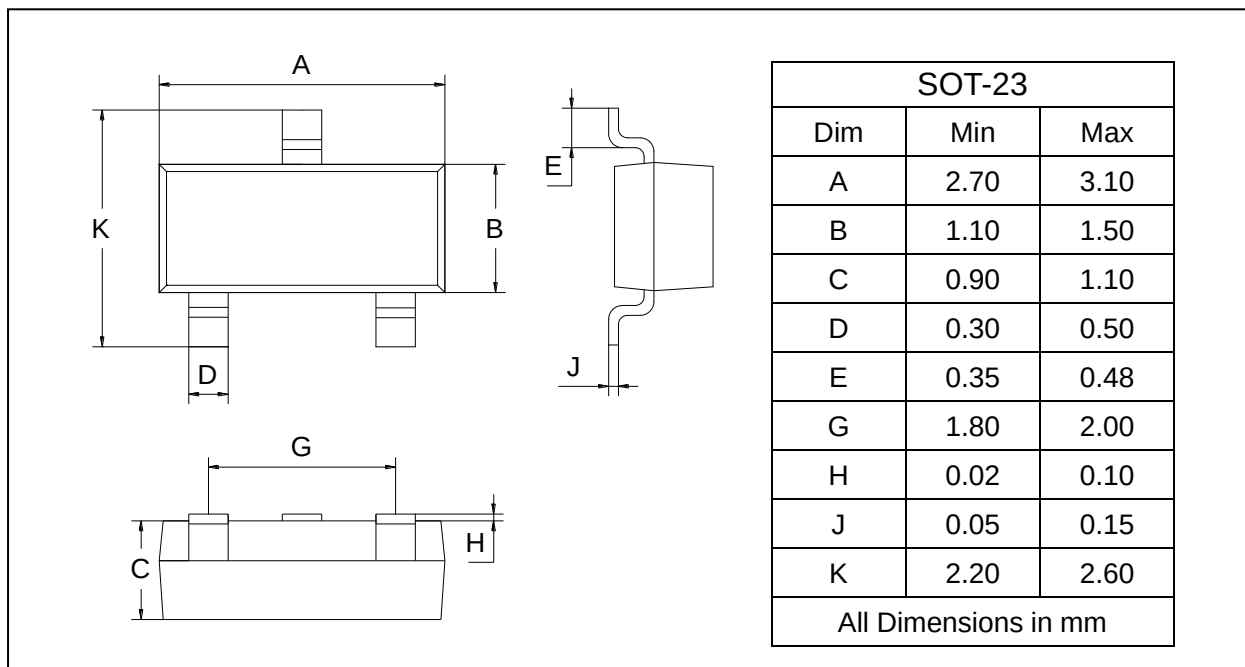
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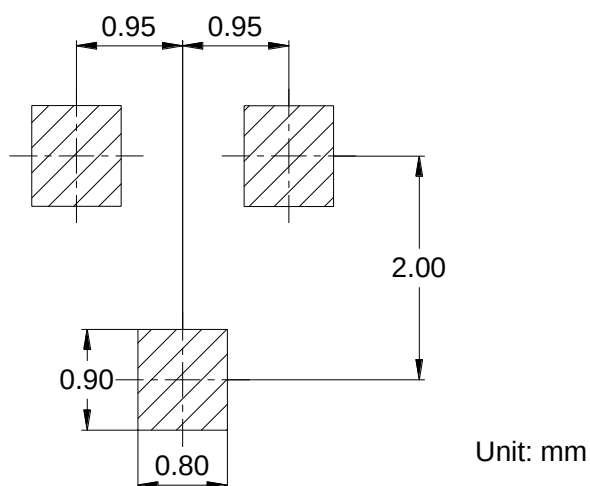
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

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