

## PNP Silicon Epitaxial Planar Transistor

## KTA1504

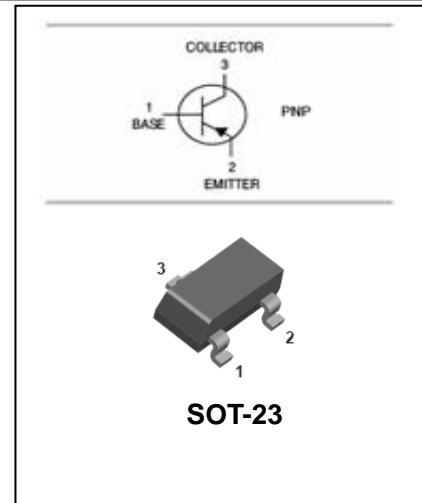
### FEATURES

- Complementary To KTC3875.
- Excellent  $H_{FE}$  Linearity.
- Low noise.



### APPLICATIONS

- General purpose application, switching application.



### ORDERING INFORMATION

Type No.	Marking	Package Code
KTA1504	ASO/ASY/ASG	SOT-23

### MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-50	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-150	mA
$I_B$	Base Current	-30	mA
$P_C$	Collector Power Dissipation	150	mW
$T_j, T_{stg}$	Junction and Storage Temperature	-55~150	$^\circ\text{C}$

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

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Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -50V, I_E = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	$\mu A$
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	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$		4.0	7.0	pF
Noise figure	NF	$V_{CE} = -6V, I_C = -0.1mA,$ $F = 1KHz, R_g = 10K\Omega$		1.0	10	dB

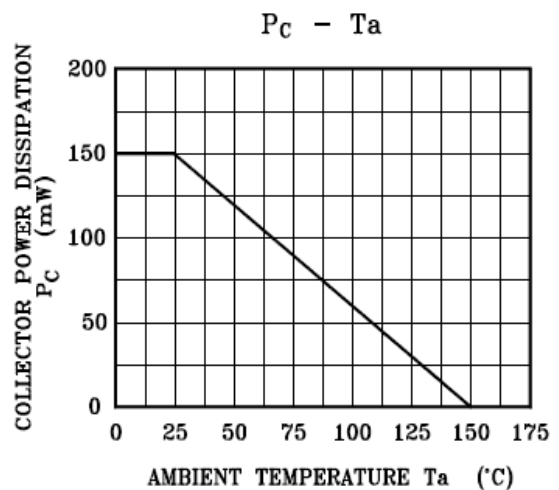
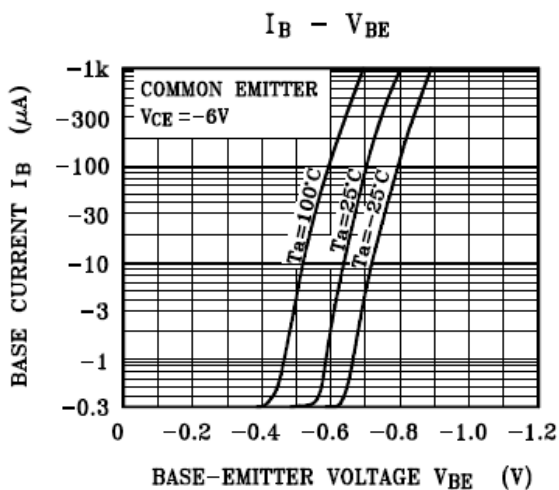
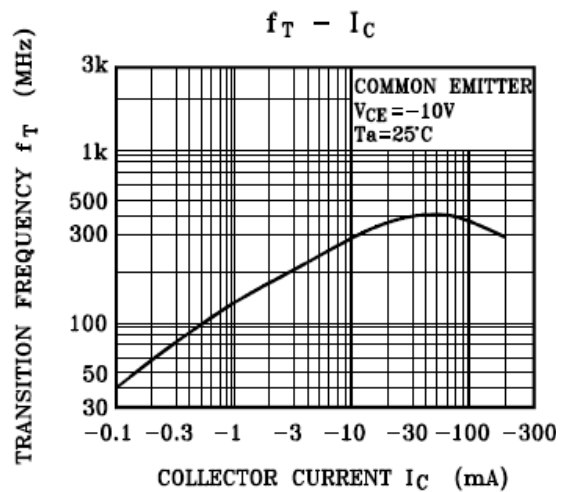
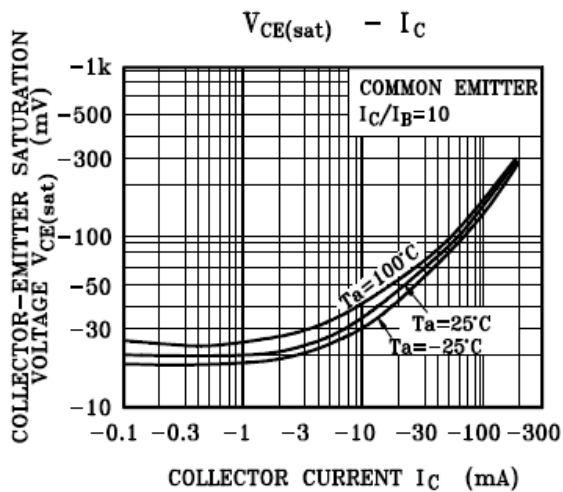
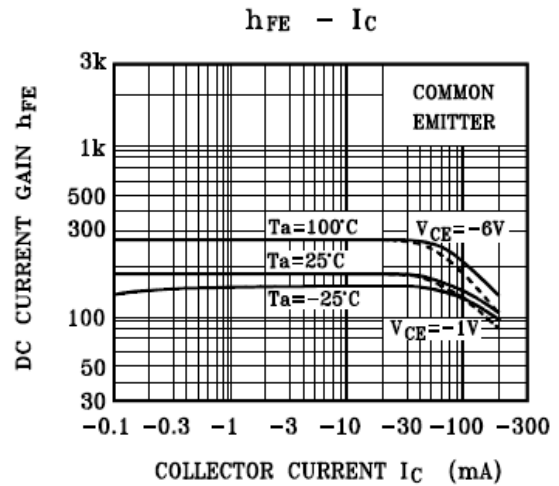
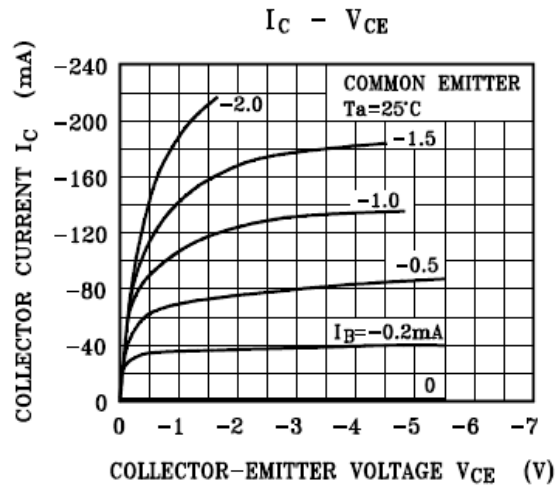
**CLASSIFICATION OF  $h_{FE}$** 

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

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



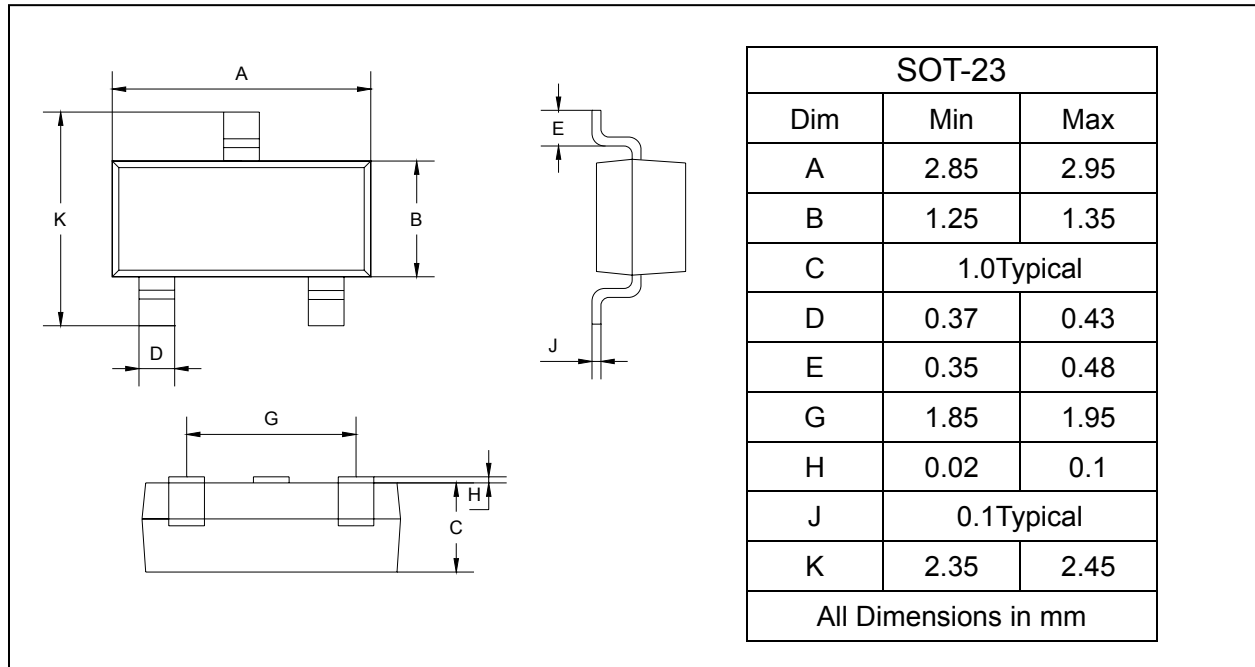
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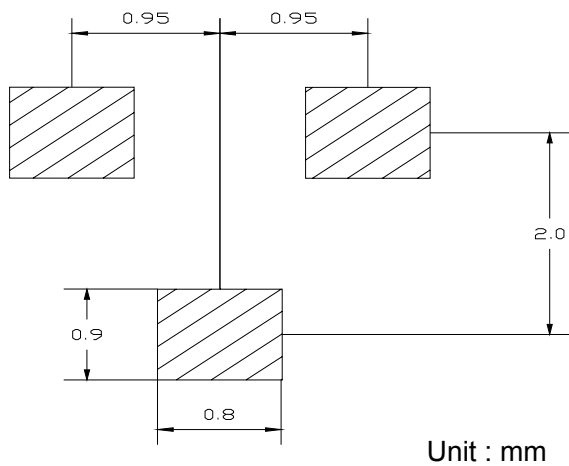
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
KTA1504	SOT-23	3000/Tape&Reel