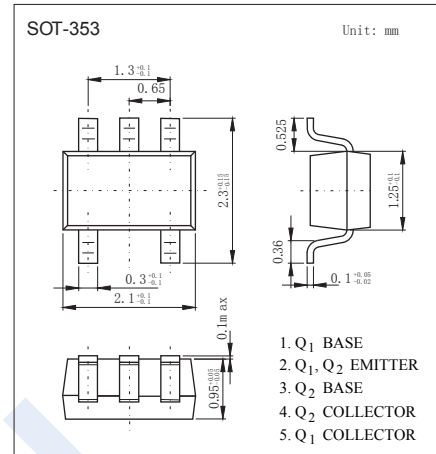
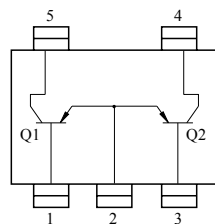


PNP Transistors

KTA501U

■ Features

- Excellent temperature response between these 2 transistor.
- High pairing property in h_{FE} .
- The following characteristics are common for Q1, Q2.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-50	V
Collector - Emitter Voltage	V_{CEO}	-50	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-150	mA
Base Current	I_B	-30	
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -100 \mu\text{A}$, $I_E = 0$	-50			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1 \text{ mA}$, $I_B = 0$	-50			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100 \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -50 \text{ V}$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 \text{ V}$, $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -10 \text{ mA}$			-0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -10 \text{ mA}$			-1.2	
DC current gain	h_{FE}	$V_{CE} = -6 \text{ V}$, $I_C = -2 \text{ mA}$	120		400	
Noise Figure	NF	$V_{CE} = -6 \text{ V}$, $I_C = -0.1 \text{ mA}$, $f = 1 \text{ KHz}$, $R_g = 10 \text{ K}\Omega$			10	dB
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$			7	pF
Transition frequency	f_T	$V_{CE} = -10 \text{ V}$, $I_C = -1 \text{ mA}$	80			MHz

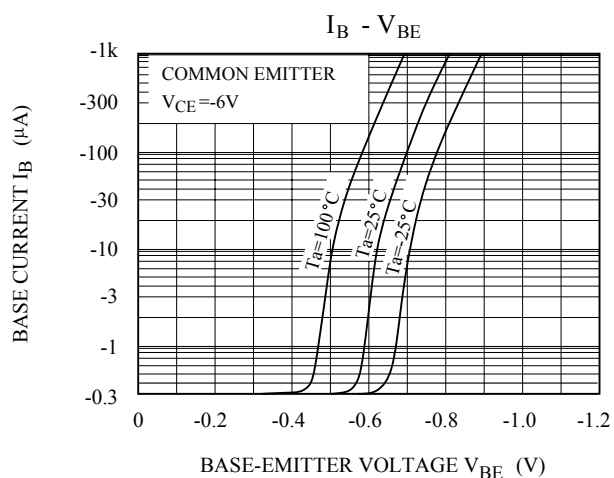
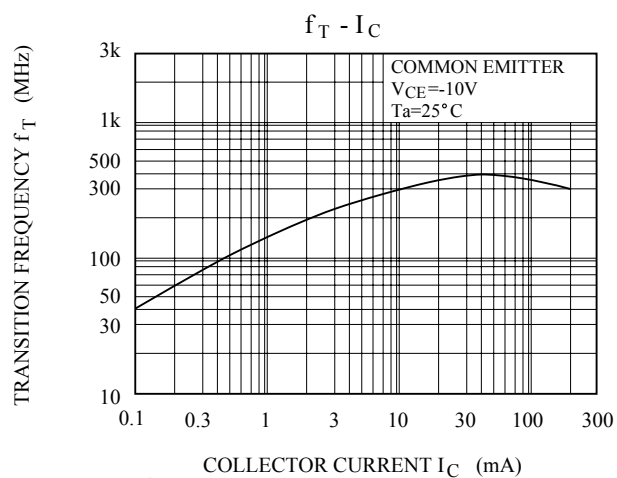
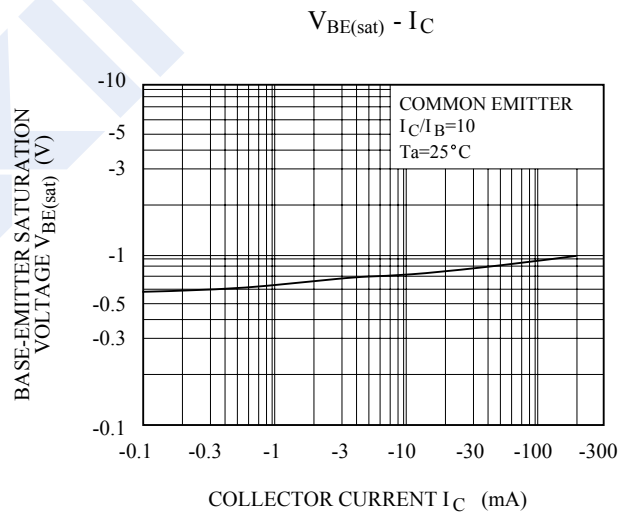
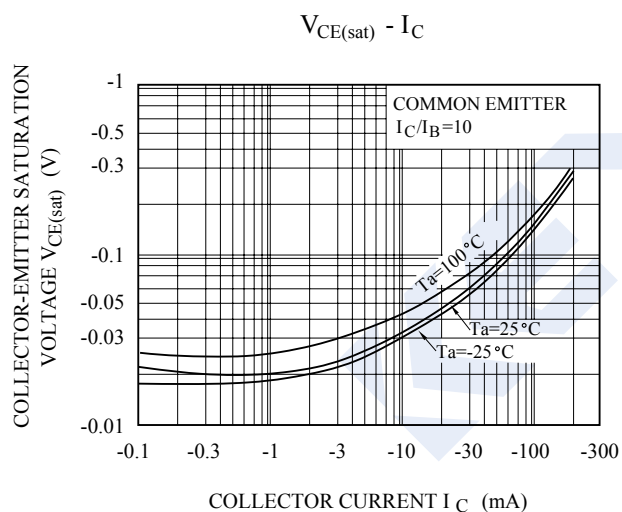
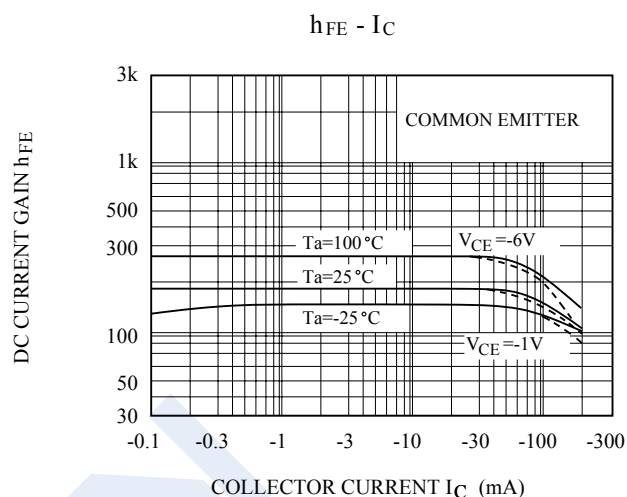
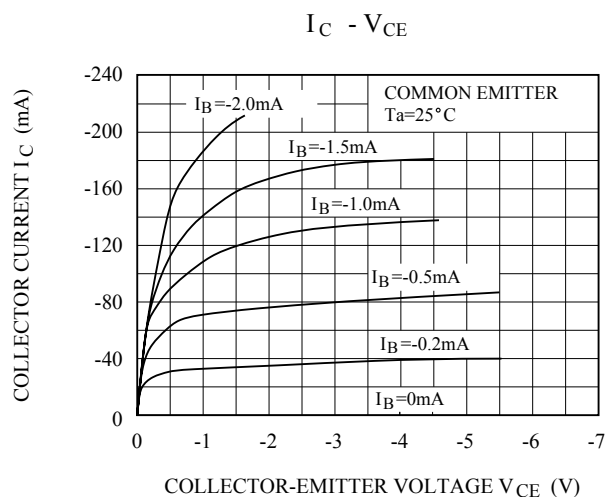
■ Classification of h_{FE}

Type	KTA501U-Y	KTA501U-G
Range	120-240	200-400
Marking	SY	SG

PNP Transistors

KTA501U

■ Typical Characteristics



PNP Transistors

KTA501U

■ Typical Characteristics

