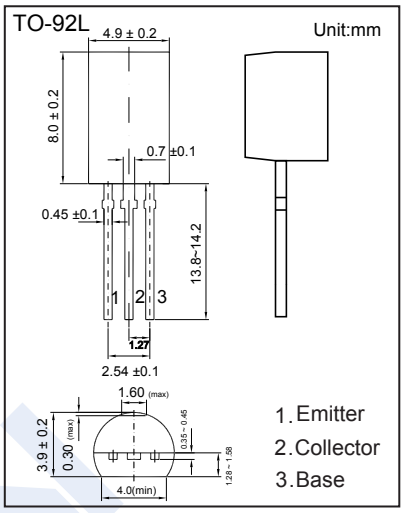
PNP Transistors

KTA1024



■ Features

- High Voltage and High fT
- Low Output Capacitance
- Comlementary to KTC3206

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-150	V
Collector - Emitter Voltage	V_{CEO}	-150	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-50	mA
Emitter Current	I_E	50	
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_J	150	℃
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	I_C= -100 uA, I_E=0	-150			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= -1 mA, I_B=0	-150			
Emitter - base breakdown voltage	V_{EBO}	I_E= -100 uA, I_C=0	-5			
Collector-base cut-off current	I_{CBO}	V_{CB}= -150 V , I_E=0			-0.1	uA
Emitter cut-off current	I_{EBO}	V_{EB}= -5V , I_C=0			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-10 mA, I_B=-1mA			-0.8	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=-10 mA, I_B=-1mA			-1.2	
Base - emitter voltage	V_{BE}	V_{CE}= -5V, I_C= -30mA			-0.9	
DC current gain	h_{FE}	V_{CE}= -5V, I_C= -10mA	70		240	
Collector output capacitance	C_{ob}	V_{CB}= -10V, I_E= 0,f=1MHz			5	pF
Transition frequency	f_T	V_{CE}= -30V, I_C= -10mA		120		MHz

■ Classification of h_{fe}

Type	KTA1024-O	KTA1024-Y
Range	70-140	120-240

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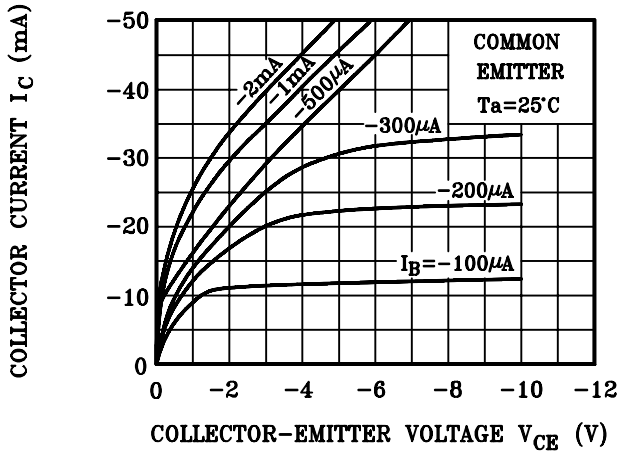
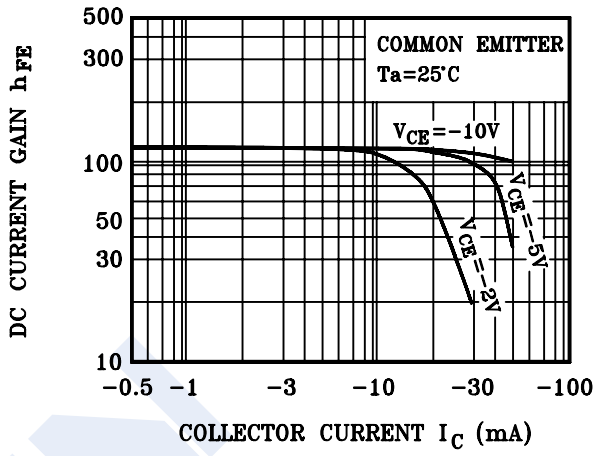
■ Typical Characterisitics

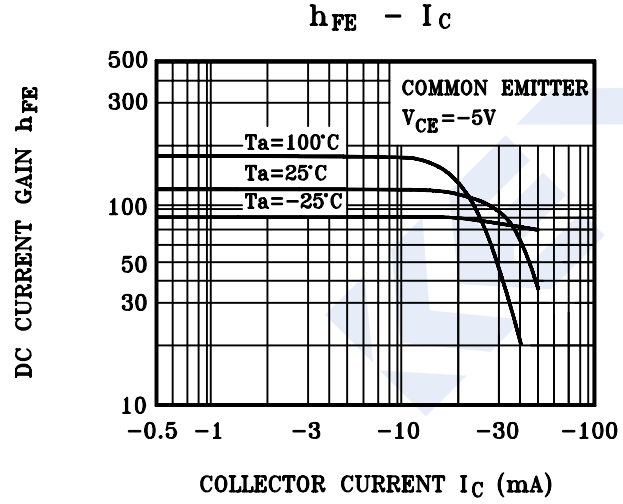
$I_C - V_{CE}$



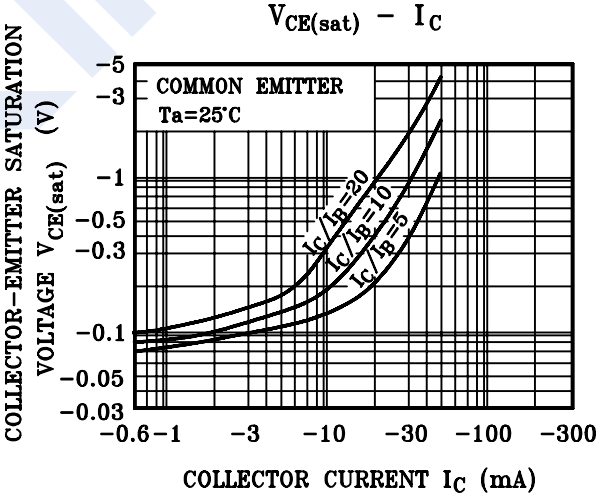
$h_{FE} - I_C$



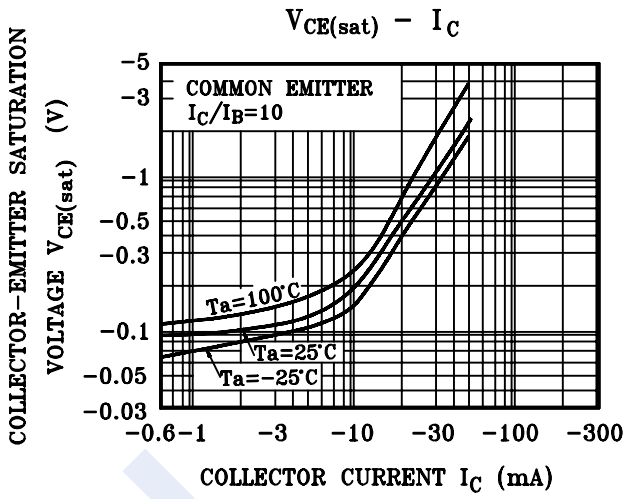
$h_{FE} - I_C$



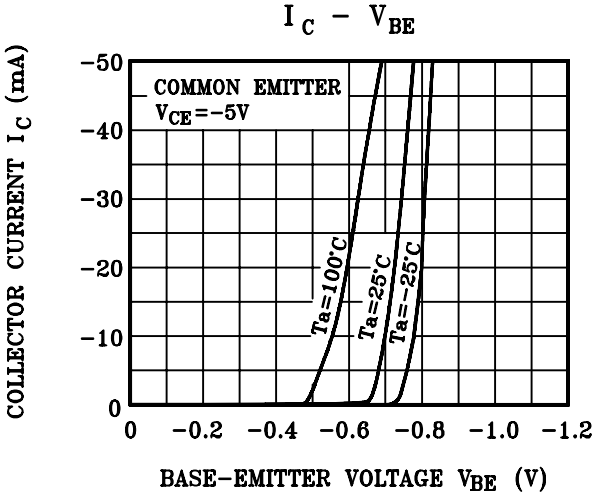
$V_{CE(sat)} - I_C$



$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



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■ Typical Characterisitics