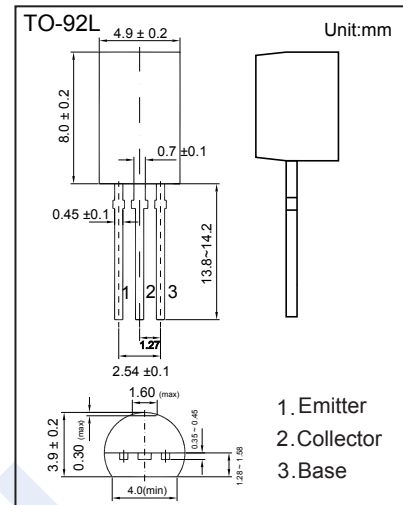


## PNP Transistors

### KTA1281

■ Features

- Low Collector Saturation Voltage
- High Speed Switching Time
- Complementary to KTC3209



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CB0</sub>	-50	V
Collector - Emitter Voltage	V <sub>CE0</sub>	-50	
Emitter - Base Voltage	V <sub>EB0</sub>	-5	
Collector Current - Continuous	I <sub>c</sub>	-2	A
Collector Power Dissipation	P <sub>c</sub>	1	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CB0</sub>	I <sub>c</sub> = -100 uA, I <sub>E</sub> =0	-50			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> = -10 mA, I <sub>B</sub> =0	-50			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = -100 uA, I <sub>c</sub> =0	-5			
Collector-base cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = -50V, I <sub>E</sub> =0			-0.1	uA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>c</sub> =0			-0.1	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =-1 A, I <sub>B</sub> =-50mA			-0.5	V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> =-1 A, I <sub>B</sub> =-50mA			-1.2	
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> = -2V, I <sub>c</sub> = -500mA	70		240	
	h <sub>FE(2)</sub>	V <sub>CE</sub> = -2V, I <sub>c</sub> = -1.5 A	40			
Turn On Time	t <sub>on</sub>			0.1	us	
Storage Time	t <sub>stg</sub>			1		
Fall Time	t <sub>f</sub>			0.1		
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f=1MHz		40		pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -2V, I <sub>c</sub> = -500mA		100		MHz

■ Classification of h<sub>FE(1)</sub>

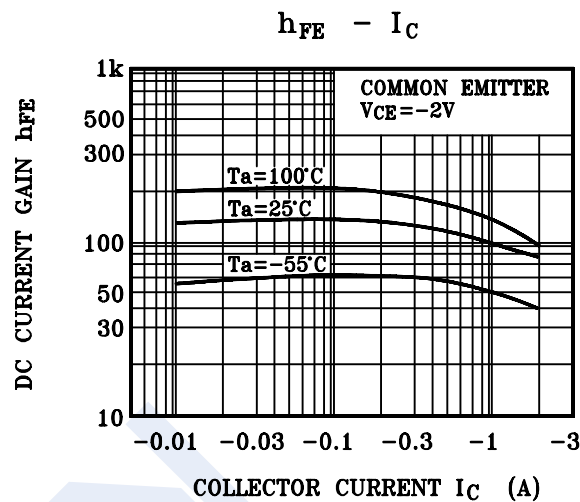
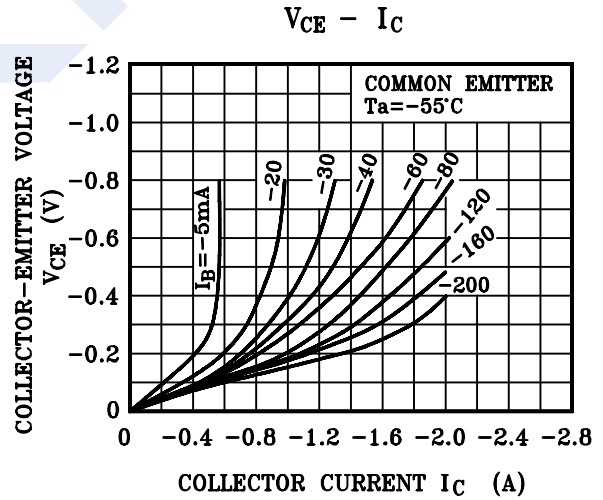
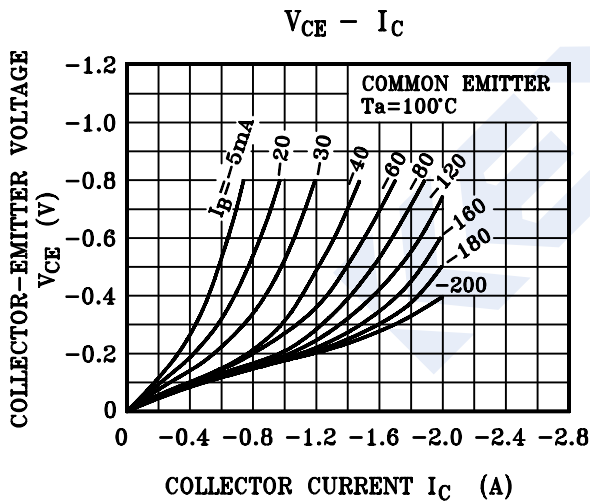
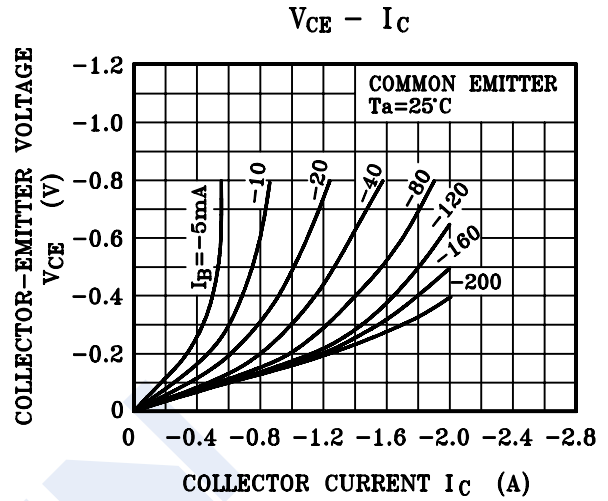
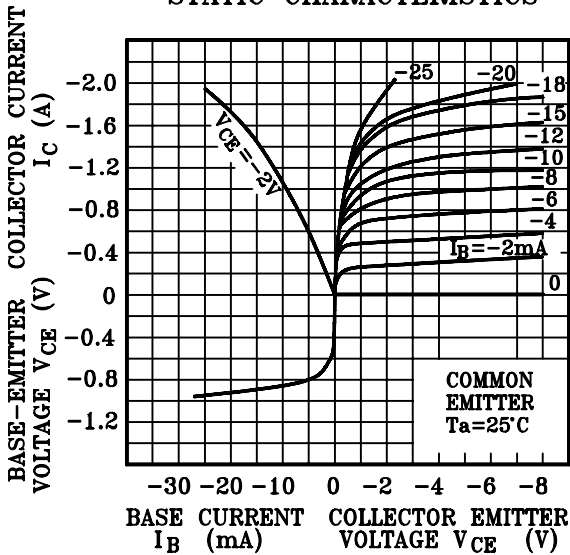
Type	KTA1281-O	KTA1281-Y
Range	70-140	120-240

PNP Transistors

KTA1281

■ Typical Characteristics

STATIC CHARACTERISTICS



### PNP Transistors

### KTA1281

■ Typical Characteristics

