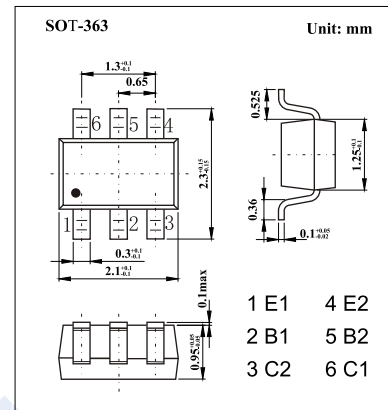
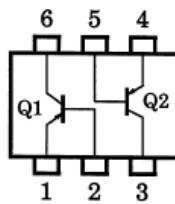


## PNP Transistors

### HN1A01FU (KN1A01FU)

#### ■ Features

- High voltage and high current
- High hFE: hFE = 120~400
- Excellent hFE linearity
- Small package (Dual type)



#### ■ 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>	-150	mA
Base current	I <sub>B</sub>	-30	
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 125	

#### ■ 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 μA, I <sub>E</sub> = 0	-50			V
Collector- emitter breakdown voltage	V <sub>CE0</sub>	I <sub>c</sub> = -1 mA, I <sub>B</sub> = 0	-50			
Emitter - base breakdown voltage	V <sub>EB0</sub>	I <sub>E</sub> = -100 μA, I <sub>c</sub> = 0	-5			
Collector-base cut-off current	I <sub>CB0</sub>	V <sub>CB</sub> = -50 V, I <sub>E</sub> = 0			-100	nA
Emitter cut-off current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>c</sub> = 0			-100	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> = -100 mA, I <sub>B</sub> = -10mA			-0.3	V
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> = -100 mA, I <sub>B</sub> = -10mA			-1.2	
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -6V, I <sub>c</sub> = -2mA	120		400	
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f = 1MHz			7	pF
Transition frequency	f <sub>t</sub>	V <sub>CE</sub> = -10V, I <sub>c</sub> = -1mA	80			MHz

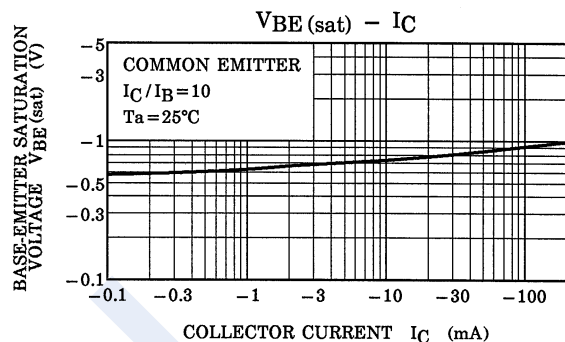
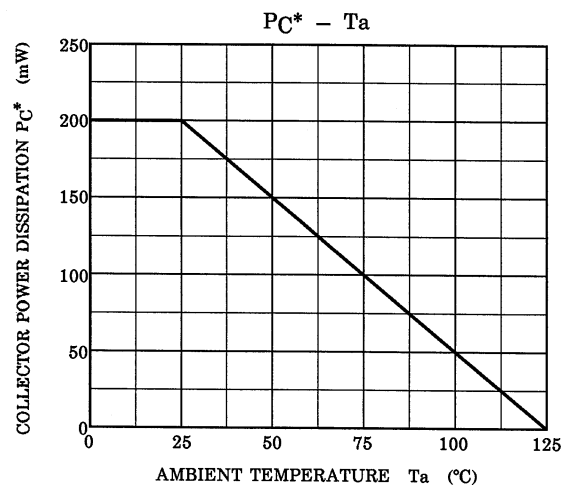
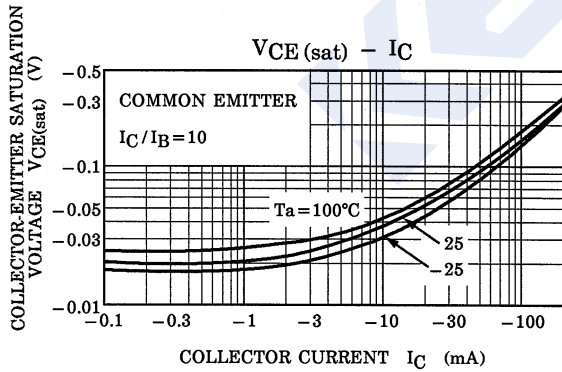
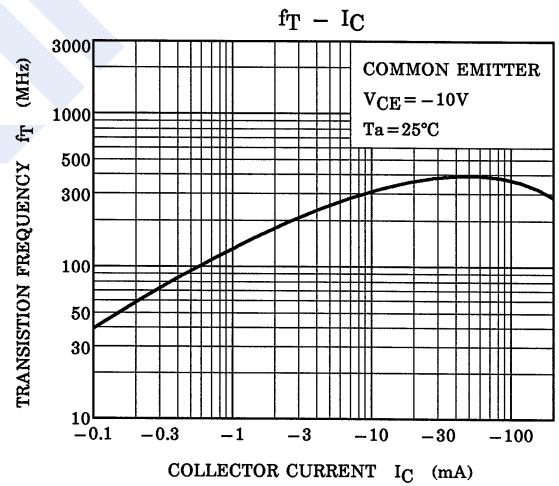
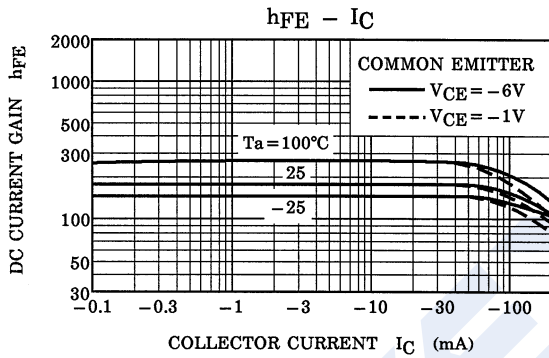
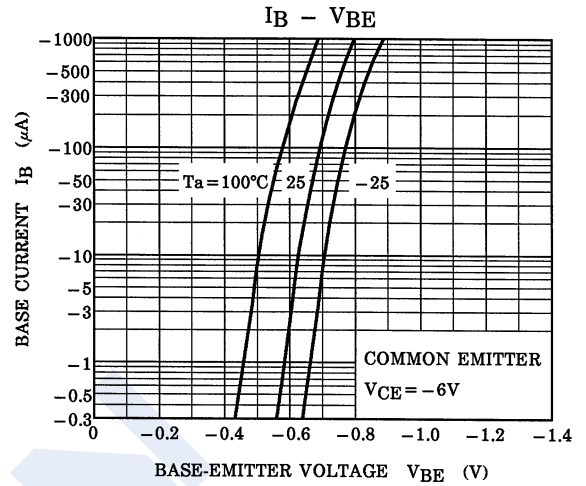
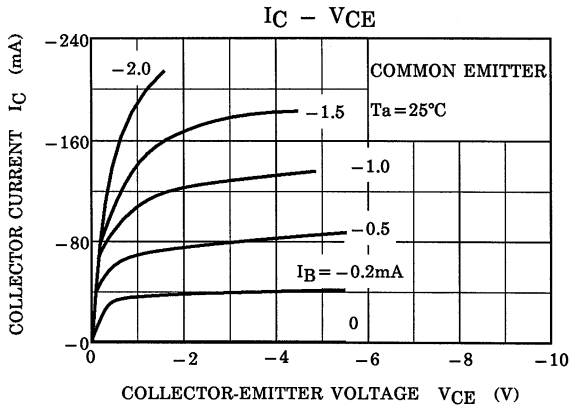
#### ■ Classification of hfe

Type	HN1A01FU-Y	HN1A01FU-G
Range	120-240	200-400
Marking	D1Y	D1G

PNP Transistors

HN1A01FU (KN1A01FU)

Typical Characteristics



\*: Total Rating