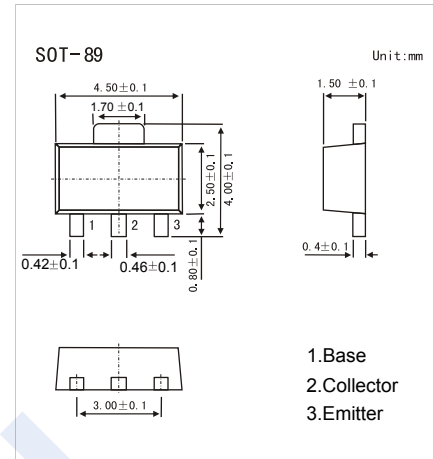


PNP Transistors

KTA1668

■ Features

- High Voltage : $V_{CE0} = -60V(\text{Min.})$.
- High Current : $I_{C(\text{Max.})} = -1A$.
- High Transition Frequency
- Complementary to KTC4378.

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-80	V
Collector - Emitter Voltage	V_{CEO}	-60	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-1	A
Collector Current - Pulse	I_{CP}	-2	
Collector Power Dissipation	P_C	500	mW
		1	W
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}	$I_C = -100 \mu A, I_E = 0$	-80			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1 \text{ mA}, I_B = 0$	-60			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -80V, I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$			-0.7	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$			-1.2	
DC current gain	h_{FE}	$V_{CE} = -2V, I_C = -50 \text{ mA}$	60		200	
		$V_{CE} = -2V, I_C = -1A$	30			
Collector output capacitance	C_{ob}	$V_{CB} = -10V, f = 1 \text{ MHz}$		12		pF
Transition frequency	f_T	$V_{CE} = -10V, I_C = -50 \text{ mA}$		150		MHz

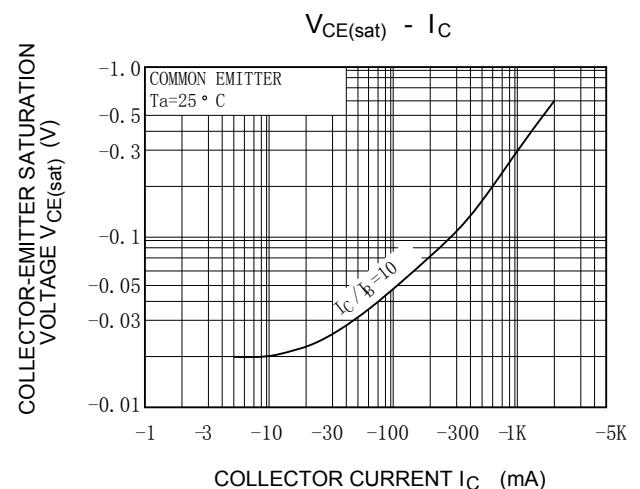
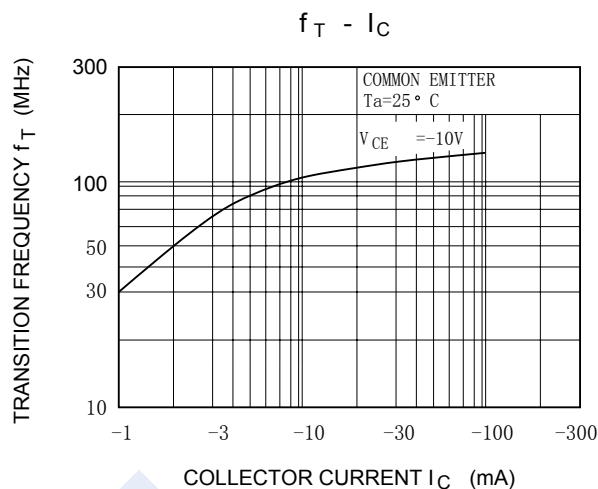
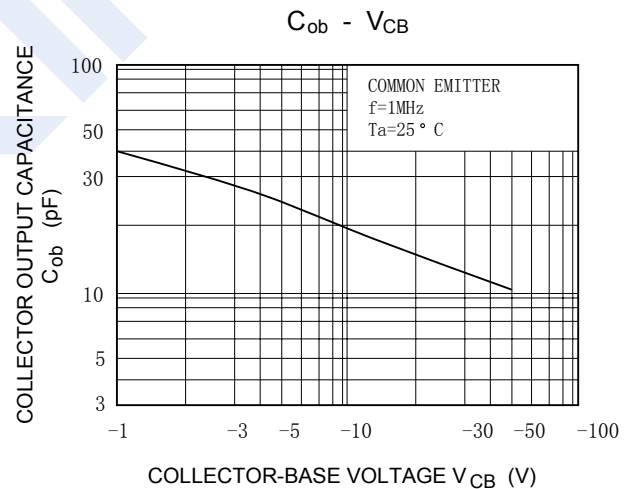
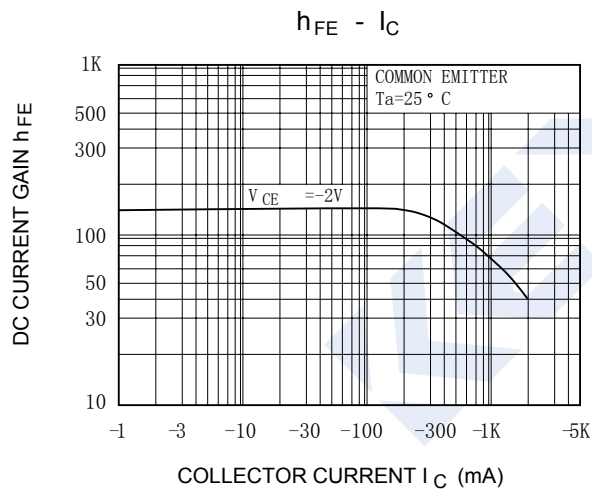
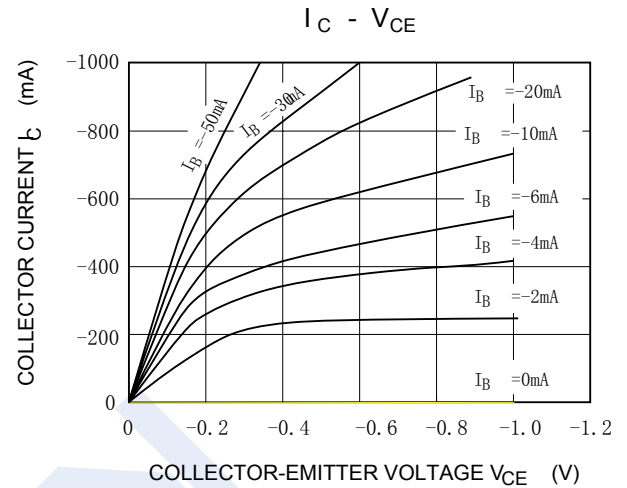
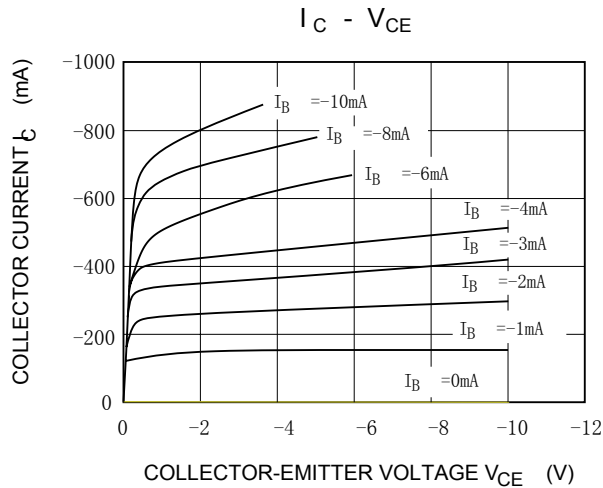
■ Classification of $h_{FE}(1)$

Type	KTA1668-O	KTA1668-Y
Range	60-120	100-200
Marking	JO	JY

PNP Transistors

KTA1668

■ Typical Characteristics

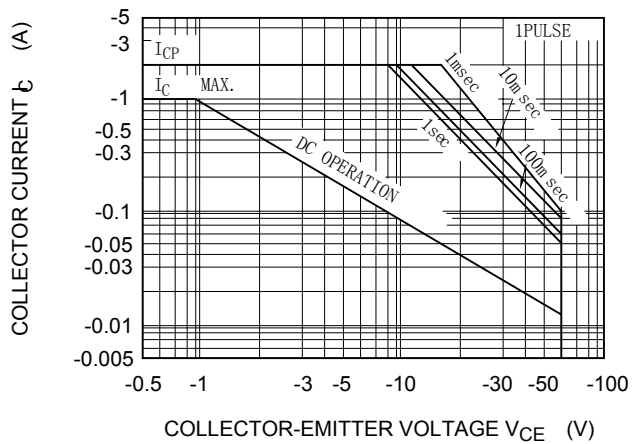


PNP Transistors

KTA1668

■ Typical Characteristics

SAFE OPERATING AREA

 $P_C - T_a$ 