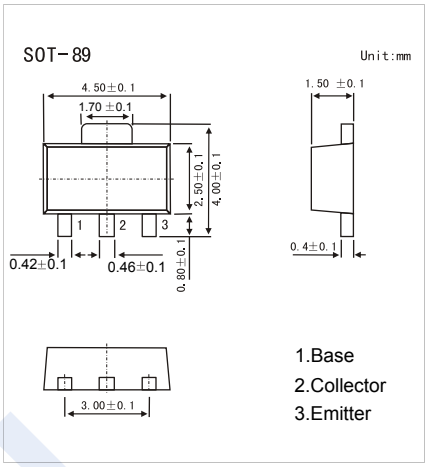
PNP Transistors

KTA1668



■ Features

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

■ Absolute Maximum Ratings Ta = 25℃

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	℃
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	-80			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= -1 mA, I_B=0	-60			
Emitter - base breakdown voltage	V_{EBO}	I_E= -100 uA, I_C=0	-5			
Collector-base cut-off current	I_{CBO}	V_{CB}= -80V , 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=-500mA, I_B=-50mA			-0.7	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=-500mA, I_B=-50mA			-1.2	
DC current gain	h_{FE}	V_{CE}= -2V, I_C= -50mA	60		200	
		V_{CE}= -2V, I_C= -1A	30			
Collector output capacitance	C_{ob}	V_{CB}= -10V, f=1MHz		12		pF
Transition frequency	f_T	V_{CE}= -10V, I_C= -50mA		150		MHz

■ Classification of $h_{fe(1)}$

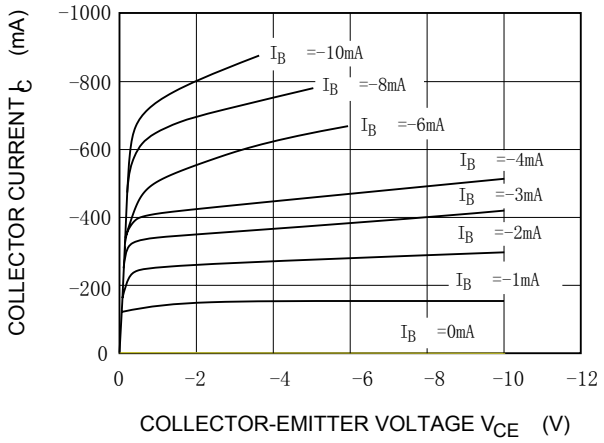
Type	KTA1668-O	KTA1668-Y
Range	60-120	100-200
Marking	JO	JY

PNP Transistors

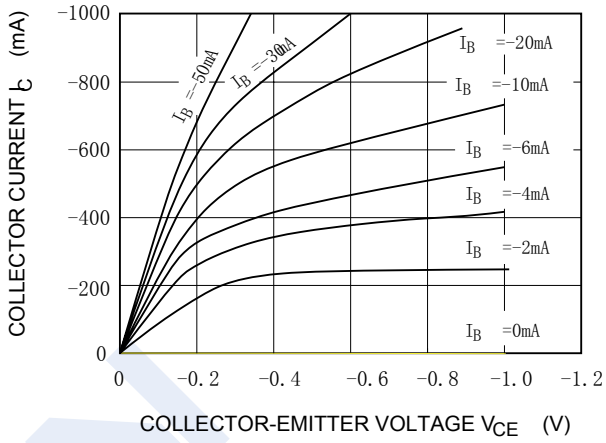
KTA1668

■ Typical Characterisitics

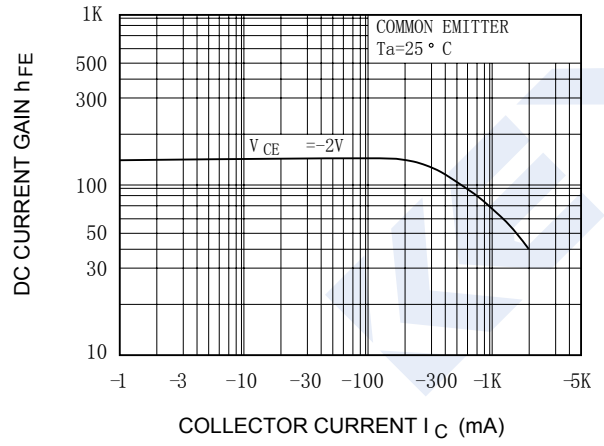
I_C - V_{CE}



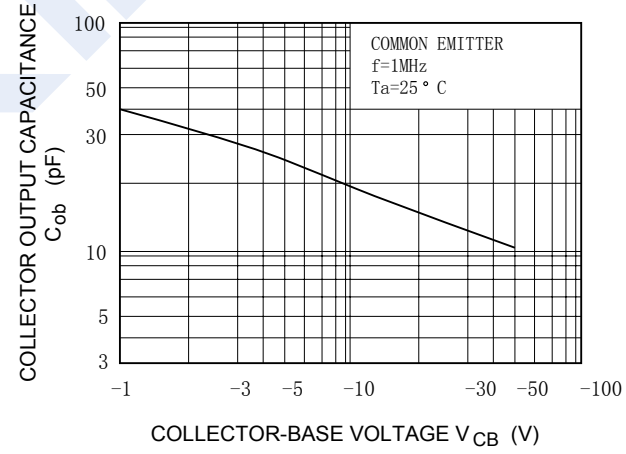
I_C - V_{CE}



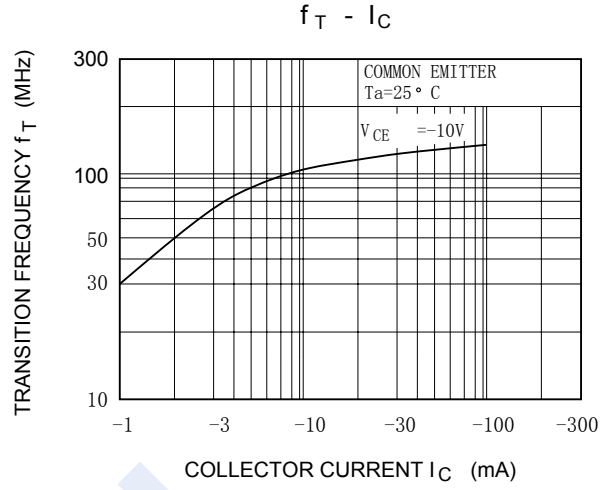
h_{FE} - I_C



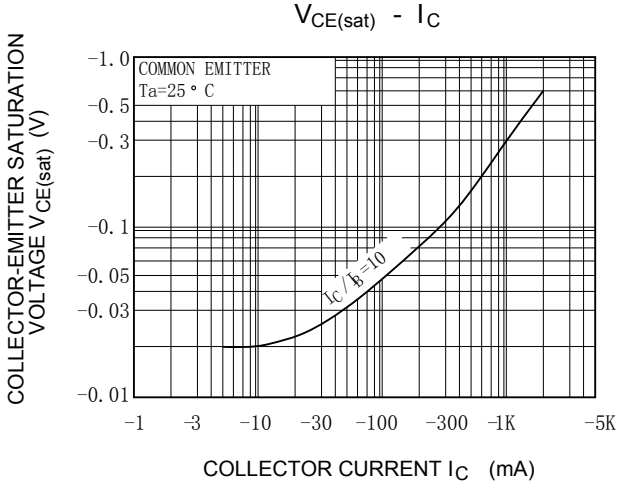
C_{ob} - V_{CB}



f_T - I_C



$V_{CE(sat)}$ - I_C

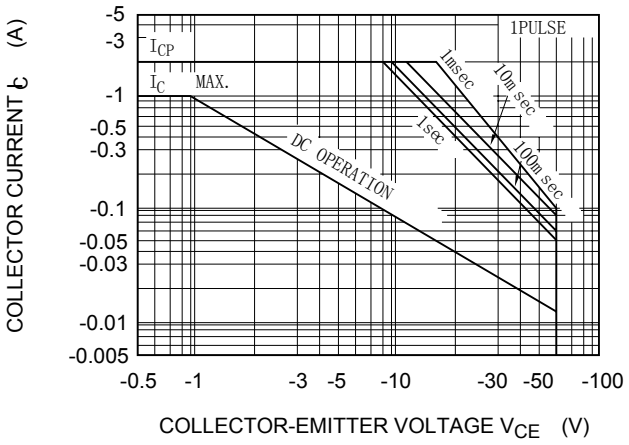


PNP Transistors

KTA1668

■ Typical Characterisitics

SAFE OPERATING AREA



P_C - Ta