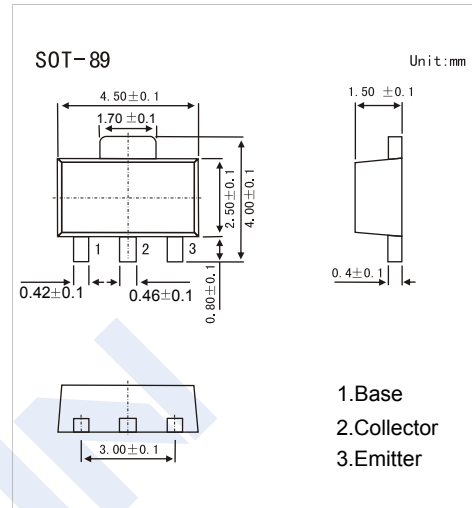


PNP Transistors

BCX51、BCX52、BCX53 (KCX51、KCX52、KCX53)

■ Features

- NPN Complements to BCX54,BCX55,BCX56
- Low Voltage
- High Current



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

Parameter	Symbol	Rating	Unit	
Collector-base voltage	BCX51	V_{CB0}	-45	V
	BCX52		-60	V
	BCX53		-100	V
Collector-emitter voltage	BCX51	V_{CEO}	-45	V
	BCX52		-60	V
	BCX53		-80	V
Emitter-base voltage	V_{EBO}	-5	V	
Collector current	I_C	-1	A	
Peak collector current	I_{CM}	-1.5	A	
Peak base current	I_{BM}	-200	mA	
Total power dissipation	P_{tot}	1.3	W	
Storage temperature	T_{stg}	-65 to +150	$^\circ\text{C}$	
Junction temperature	T_j	150	$^\circ\text{C}$	
Operating ambient temperature	T_{amb}	-65 to +150	$^\circ\text{C}$	
Thermal resistance from junction to ambient	$R_{th(j-a)}$	94	K/W	
Thermal resistance from junction to solder point	$R_{th(j-s)}$	14	K/W	

BCX51、BCX52、BCX53 (KCX51、KCX52、KCX53)

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = -30 V, I _E = 0			-100	nA
		V _{CB} = -30 V, I _E = 0; T _j = 125°C			-10	uA
Emitter cutoff current	I _{EBO}	V _{EB} = -5 V, I _C = 0			-100	nA
DC current gain	h _{FE}	I _C = -5 mA; V _{CE} = -2 V	63			
		I _C = -150 mA; V _{CE} = -2 V	63		250	
		I _C = -500 mA; V _{CE} = -2 V	40			
DC current gain BCX51-10,BCX52-10,BCX53-10 BCX51-16,BCX52-16,BCX53-16	h _{FE}	I _C = -150 mA; V _{CE} = -2 V	63		160	
		I _C = -150 mA; V _{CE} = -2 V	100		250	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500 mA; I _B = -50 mA			-500	mV
Base to emitter voltage	V _{BE}	I _C = -500 mA; V _{CE} = -2 V			-1	V
Transition frequency	f _t	I _C = -10 mA; V _{CE} = -5 V; f = 100 MHz		50		MHz

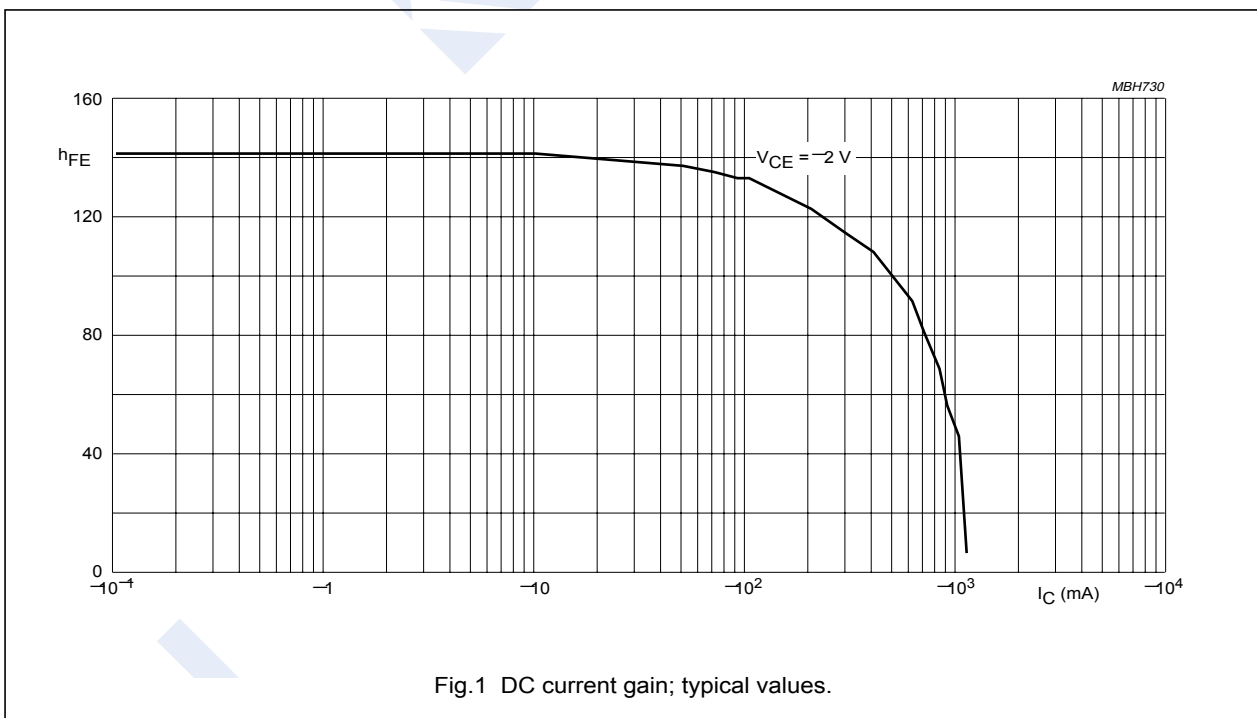
■ hFE Classification

TYPE	BCX51	BCX51-10	BCX51-16
Marking	AA	AC	AD

TYPE	BCX52	BCX52-10	BCX52-16
Marking	AE	AG	AM

TYPE	BCX53	BCX53-10	BCX53-16
Marking	AH	AK	AL

■ Typical Characteristics



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