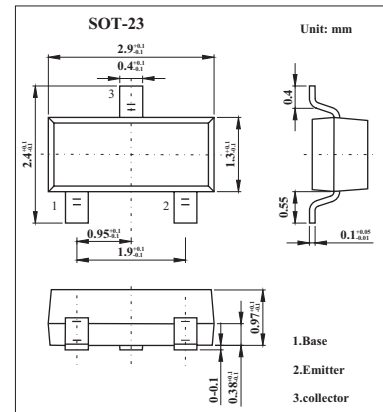


■ Features

- Excellent hFE linearity
- Collector Current :Ic=0.5A



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	40	V
Collector - Emitter Voltage	V _{CEO}	25	V
Emitter - Base Voltage	V _{EB0}	5	V
Collector Current - Continuous	I _C	500	mA
Collector Power Dissipation	P _C	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector - base breakdown voltage	V _{CB0}	I _c = 100 μ A, I _E =0	40			V
Collector - emitter breakdown voltage	V _{CEO}	I _c = 0.1mA, I _B =0	25			V
Emitter - base breakdown voltage	V _{EB0}	I _E =100 μ A, I _C =0	5			V
Collector cut - off current	I _{CBO}	V _{CB} =40 V, I _E =0			0.1	μ A
Collector cut -off current	I _{CEO}	V _{CE} =20V, I _B =0			0.1	μ A
Emitter cut - off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	μ A
DC current gain	h _{FE}	V _{CE} =1V, I _c = 50mA	120		400	
		V _{CE} =1V, I _c =500mA	40			
Collector - emitter saturation voltage	V _{CE(sat)}	I _C =500 mA, I _B = 50mA			0.6	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =500 mA, I _B = 50mA			1.2	V
Transition frequency	f _T	V _{CE} =6V, I _c = 20mA, f=30MHz	150			MHz

■ hFE Classification

Marking	J3		
Rank	L	H	J
hFE	120 to 200	200 to 350	300 to 400

■ Typical Characteristics

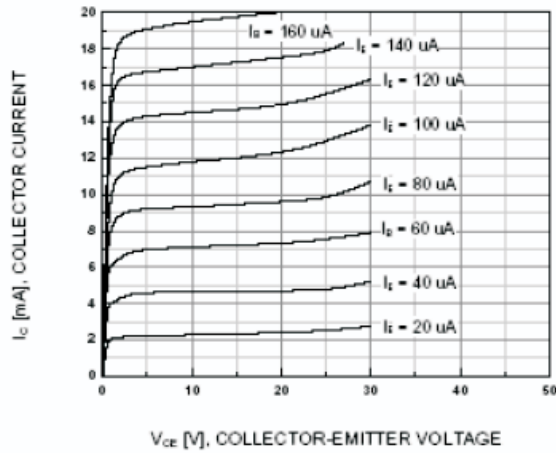


Fig.1 Static Characteristic

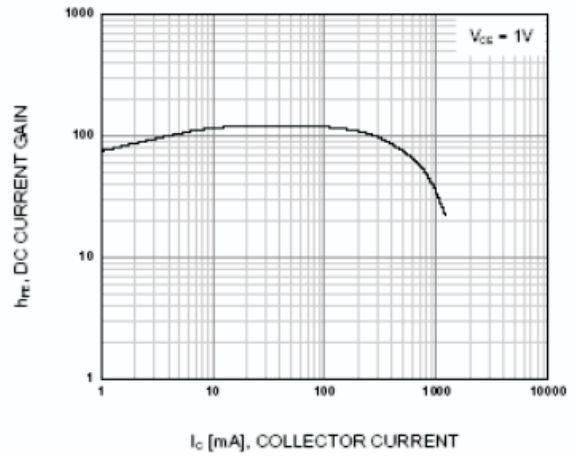


Fig.2 DC Current Gain

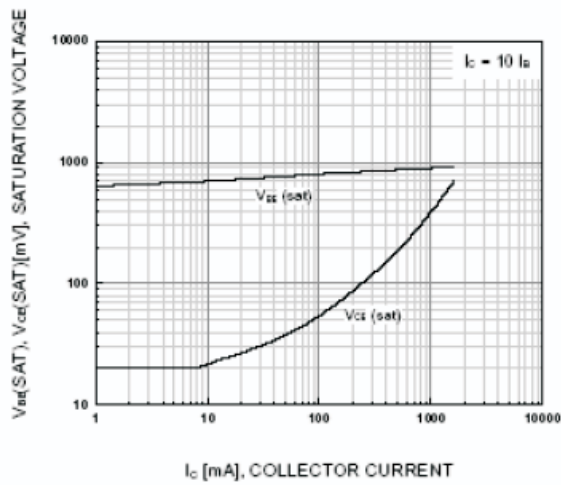


Fig.3 Base Emitter Saturation Voltage
Collector Emitter Saturation Voltage

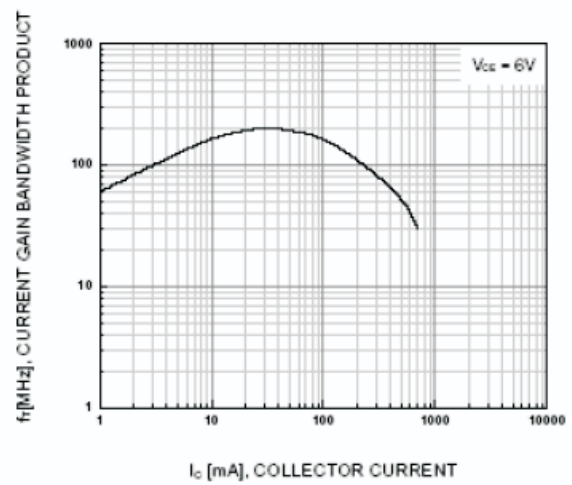


Fig.4 Current Gain Bandwidth Product