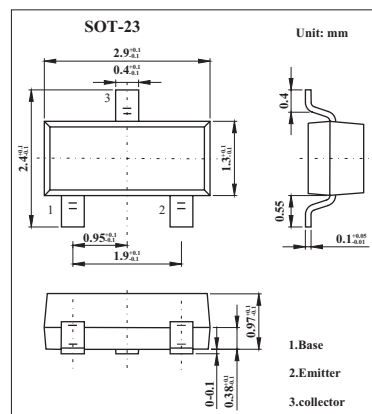


2SA1182

■ Features

- SOT-23 package



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	-35	V
Collector-emitter voltage	V _{CEO}	-30	V
Emitter-base voltage	V _{EB0}	-5	V
Collector current	I _C	-500	mA
Base current	I _B	-50	mA
Collector power dissipation	P _C	150	mW
Junction temperature	T _J	125	°C
Storage temperature range	T _{stg}	-55 to +125	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -35 V, I _E = 0			-0.1	μ A
Emitter cut-off current	I _{EB0}	V _{EB} = -5 V, I _C = 0			-0.1	μ A
DC current gain	h _{FE}	V _{CE} = -1 V, I _C = -100 mA	70		240	
		V _{CE} = -6 V, I _C = -400 mA	25			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -100 mA, I _B = -10 mA		-0.1	-0.25	V
Base-emitter voltage	V _{BE}	V _{CE} = -1 V, I _C = -100 mA		-0.8	-1.0	V
Collector output capacitance	C _{ob}	V _{CB} = -6 V, I _E = 0, f = 1 MHz		13		pF
Transition frequency	f _r	V _{CE} = -6 V, I _C = -20 mA		200		MHz

■ hFE Classification

Marking	ZO	ZY
Rank	O	Y
hFE	70~140	120~240



2SA1182

Typical Characteristics

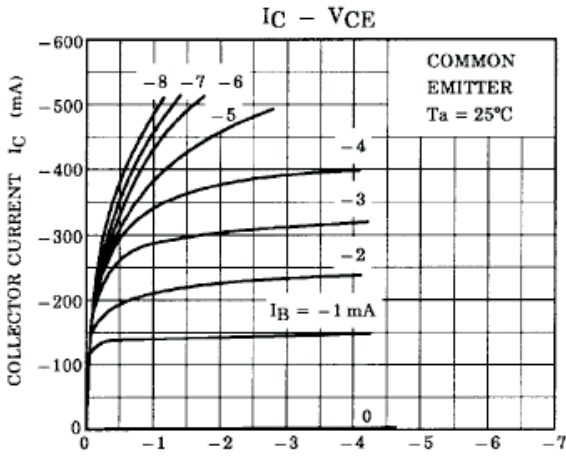


Fig. 1 Collector Emitter Voltage

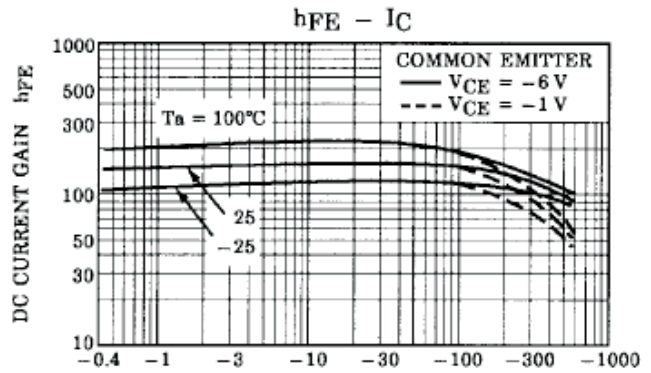


Fig.2 Collector Current

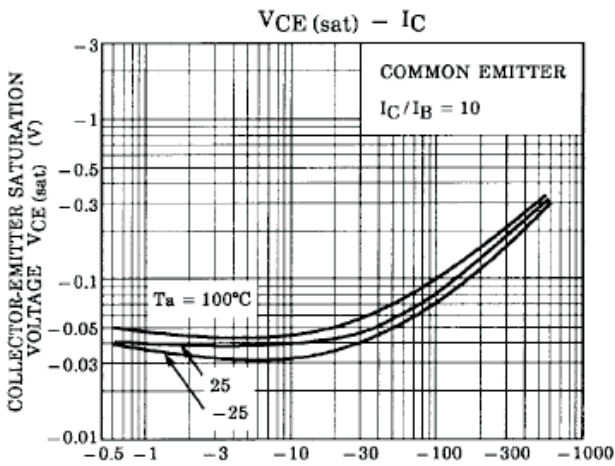


Fig.3 Collector Current

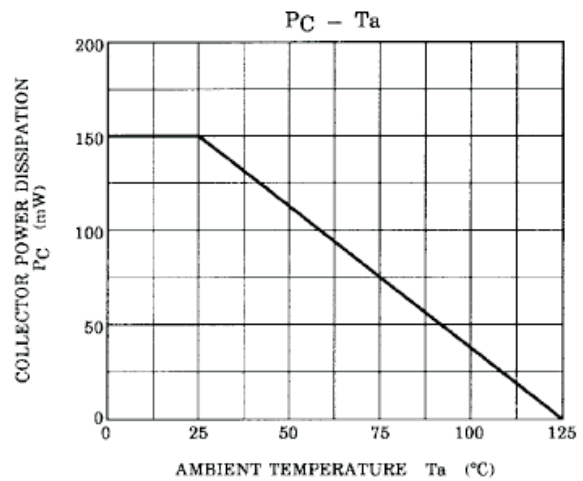


Fig.4 Ambient Temperature

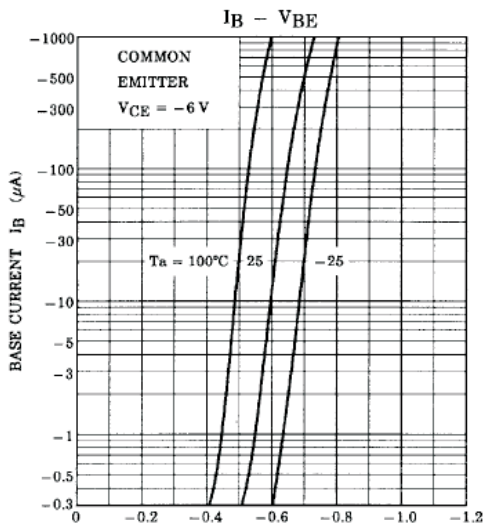


Fig.5 Base Emitter Voltage