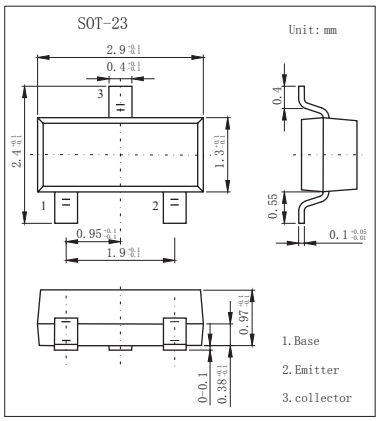
NPN Transistors

2SC1815



■ Features

- Power dissipation

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current to Continuous	I_C	150	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	125	℃
Storage Temperature	T_{stg}	-55 to 125	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector to base breakdown voltage	V_{CBO}	I_C= 100 μ A, I_E=0	60			V
Collector to emitter breakdown voltage	V_{CEO}	I_C= 0.1mA, I_B=0	50			V
Collector cut to off current	I_{CBO}	V_{CB}=60V, I_E=0			0.1	μ A
Collector cut to off current	I_{CEO}	V_{CE}=50V, I_B=0			0.1	μ A
Emitter cut to off current	I_{EBO}	V_{EB}= 5V, I_C=0			0.1	μ A
DC current gain	h_{FE}	V_{CE}= 6V, I_C= 2mA	130		400	
Collector to emitter saturation voltage	$V_{CE(sat)}$	I_C=100 mA, I_B= 10mA			0.25	V
Base to emitter saturation voltage	$V_{BE(sat)}$	I_C=100 mA, I_B= 10mA			1	V
Transition frequency	f_T	V_{CE}=10V, I_C= 1mA,f=30MHz	80			MHz

■ h_{FE} Classification

Marking	HF	
Rank	L	H
h_{FE}	130～200	200～400

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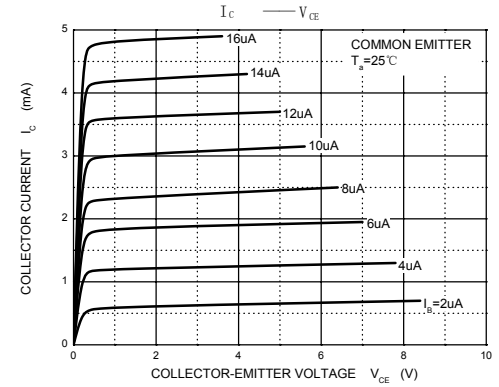
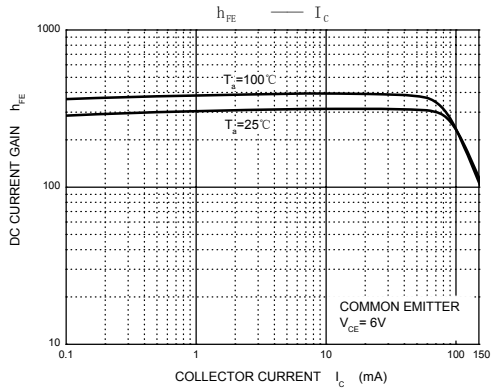
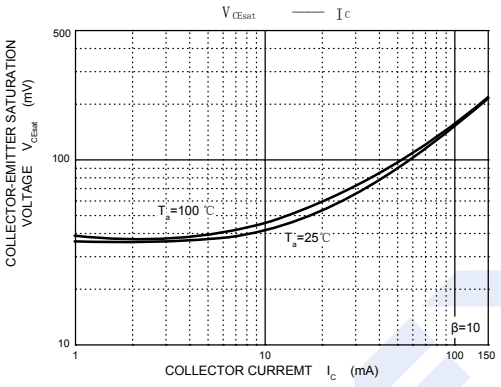
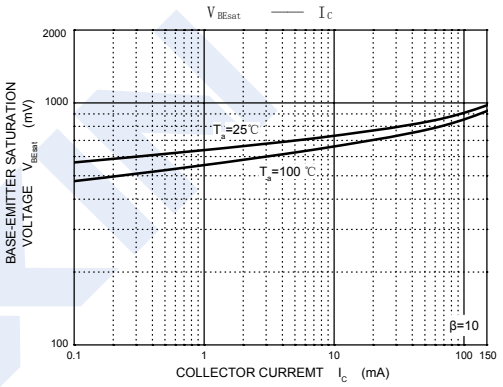
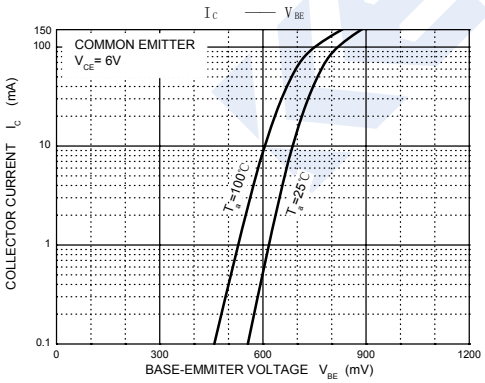
■ Typlcal Characteristics

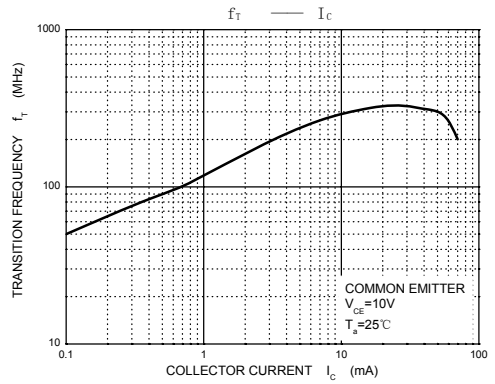


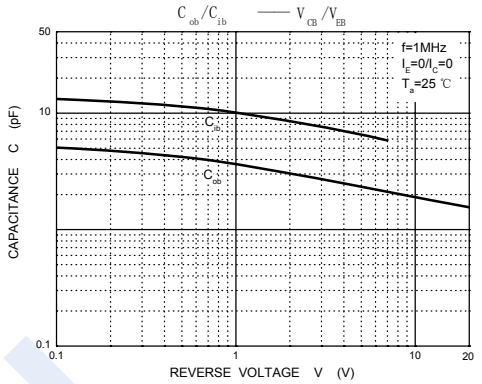


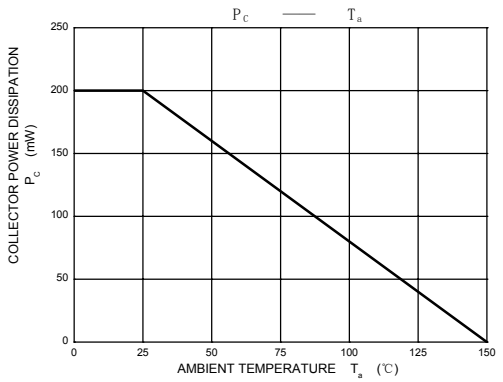












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