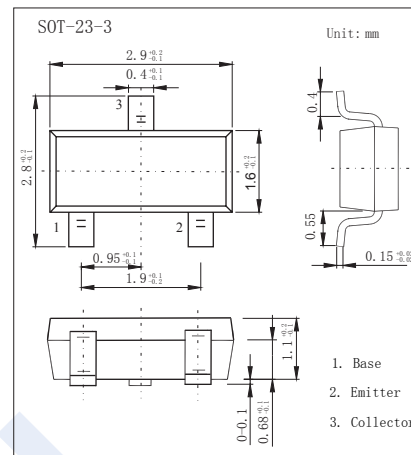


PNP Transistors

2SA1839

■ Features

- Small output capacitance.
- Low collector-to-emitter saturation voltage.
- Low ON resistance.

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-15	V
Collector - Emitter Voltage	V_{CEO}	-10	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-100	mA
Collector Current - Pulse	I_{CP}	-200	
Base Current	I_B	-20	
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -100\ \mu\text{A}$, $I_E = 0$	-15			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1\ \text{mA}$, $R_{BE} = \infty$	-10			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100\ \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -12\ \text{V}$, $I_E = 0$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4\ \text{V}$, $I_C = 0$			-100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10\ \text{mA}$, $I_B = -1\ \text{mA}$		-0.04	-0.15	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -10\ \text{mA}$, $I_B = -1\ \text{mA}$		-0.82	-1.1	
DC current gain	h_{FE}	$V_{CE} = -2\ \text{V}$, $I_C = -5\ \text{mA}$	200		600	
On Resistance	R_{on}	$I_B = -3\ \text{mA}$, $f = 1\ \text{MHz}$		3		Ω
Collector output capacitance	C_{ob}	$V_{CB} = -10\ \text{V}$, $I_E = 0$, $f = 1\ \text{MHz}$		0.9		pF
Transition frequency	f_T	$V_{CE} = -5\ \text{V}$, $I_C = -10\ \text{mA}$		600		MHz

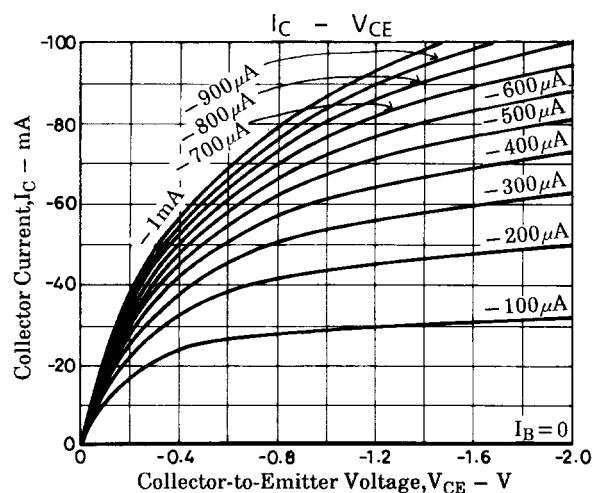
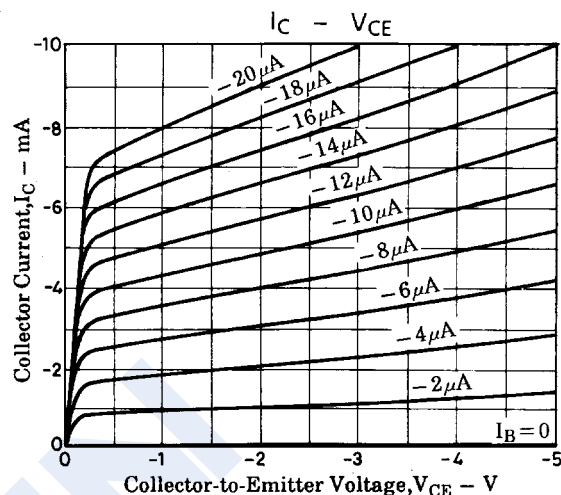
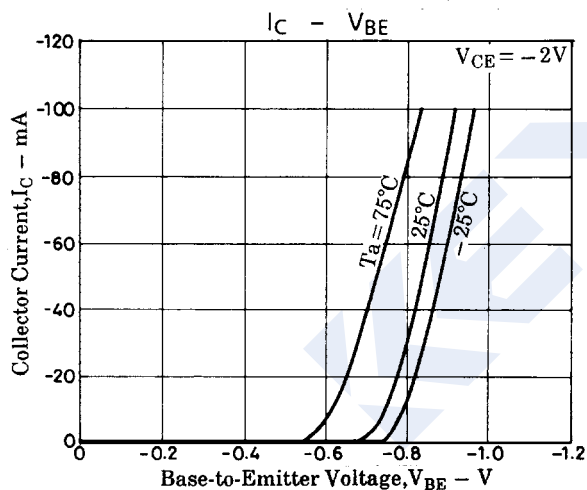
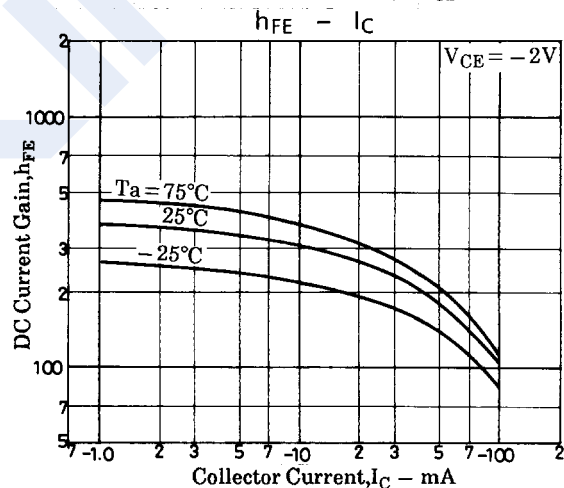
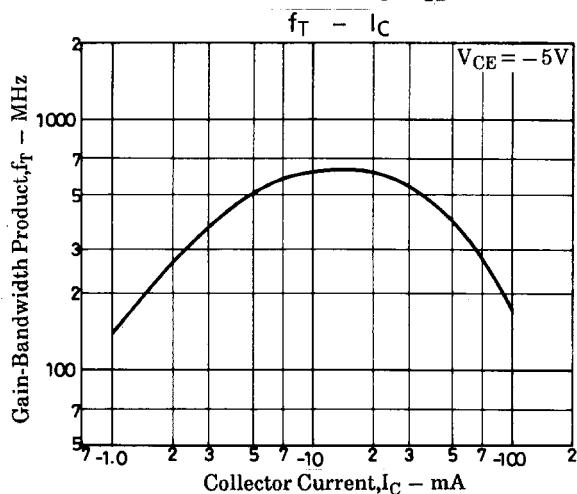
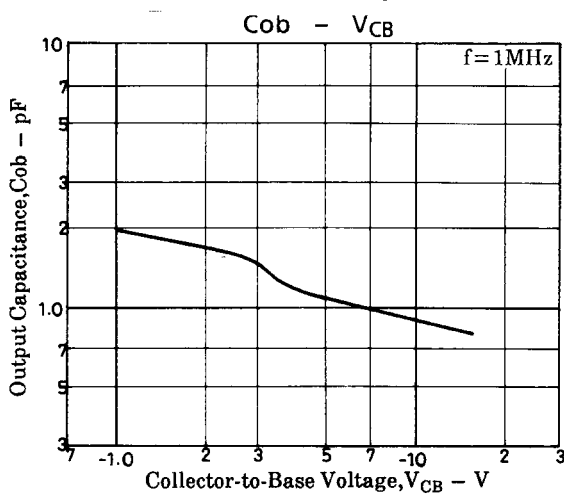
■ Marking

Marking	LS
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PNP Transistors

2SA1839

■ Typical Characteristics



PNP Transistors

2SA1839

■ Typical Characteristics

