



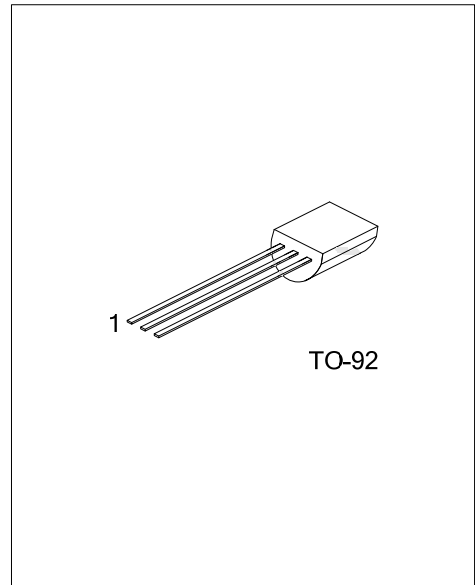
BF423

PNP SILICON TRANSISTOR

PNP HIGH-VOLTAGE TRANSISTORS

FEATURES

* Collector-Emitter Voltage: $V_{CE0}=-250V$



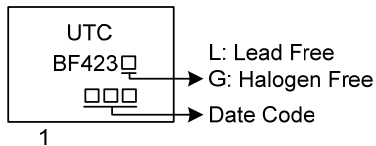
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BF423L-T92-B	BF423G-T92-B	TO-92	E	C	B	Tape Box
BF423L-T92-K	BF423G-T92-K	TO-92	E	C	B	Bulk

Note: Pin Assignment: G: Gate S: Source D: Drain

<p>BF423G-T92-B</p> <p>(1)Packing Type (2)Package Type (3)Green Package</p>	<p>(1) B: Tape Box, K: Bulk (2) T92: TO-92 (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATING ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

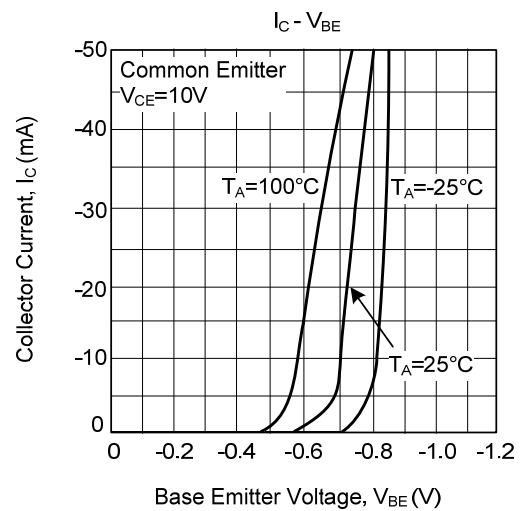
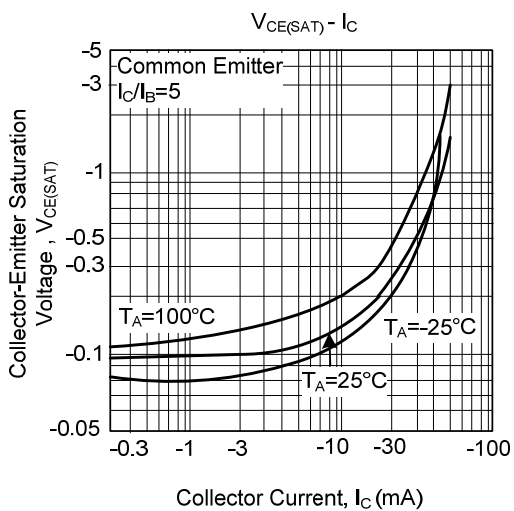
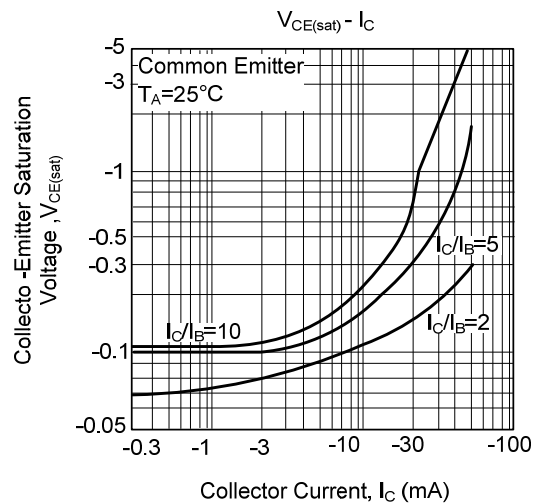
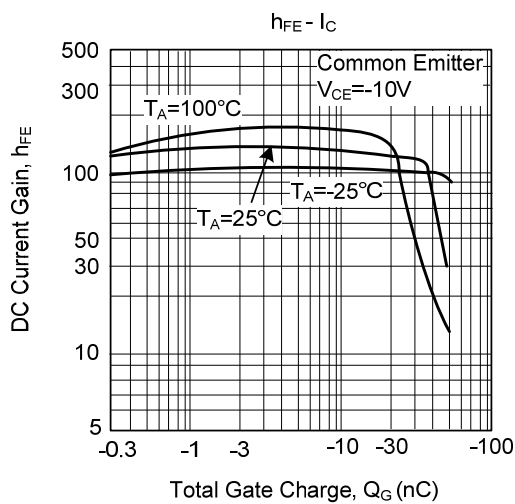
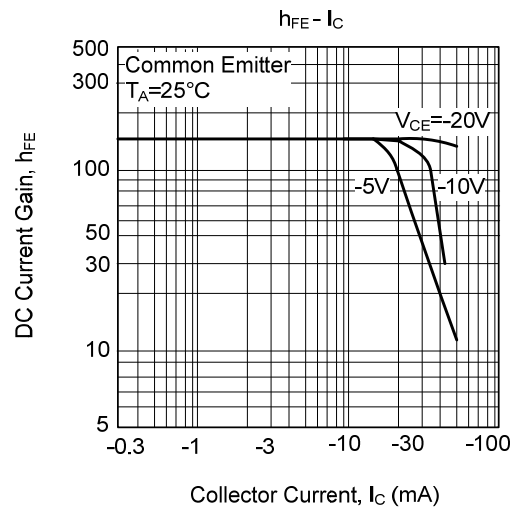
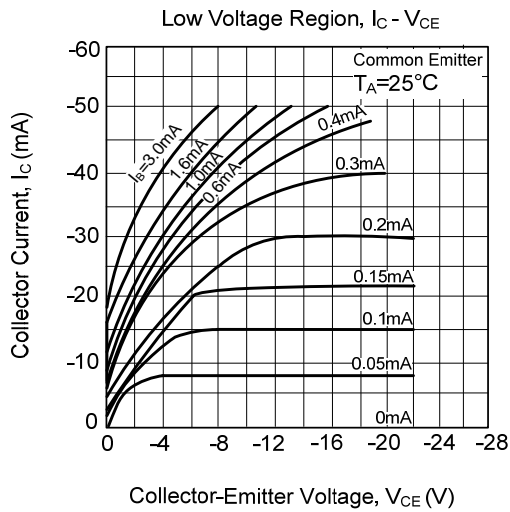
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-base voltage	V_{CBO}	-250	V
Collector-emitter voltage	V_{CEO}	-250	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current (DC)	I_C	-50	mA
collector current (Peak)	I_{CP}	-100	mA
base current	I_B	-50	mA
Collector Power dissipation	P_C	625	mW
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Operating Temperature	T_{OPR}	-20 ~ +85	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40 ~ +150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

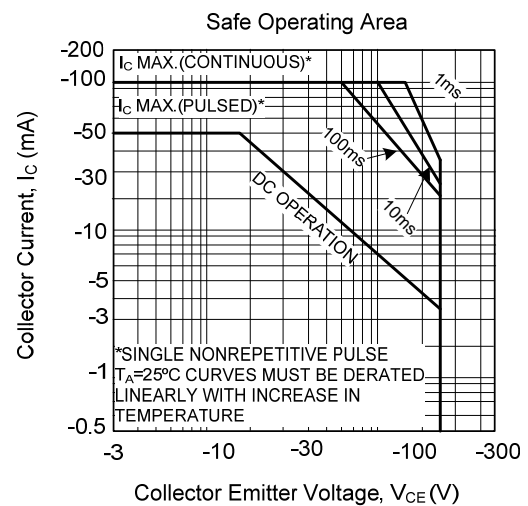
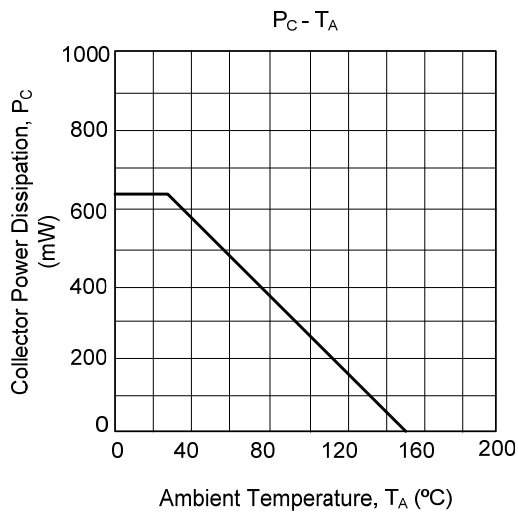
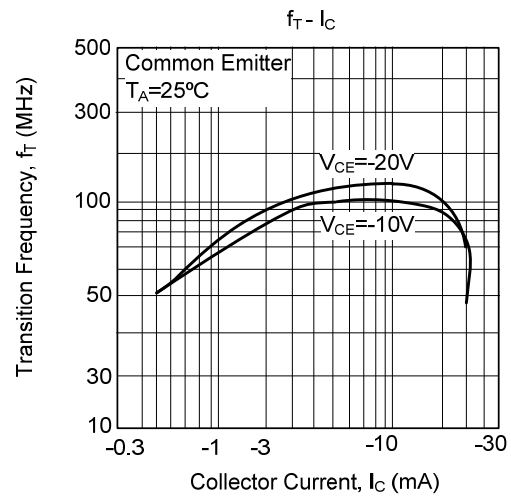
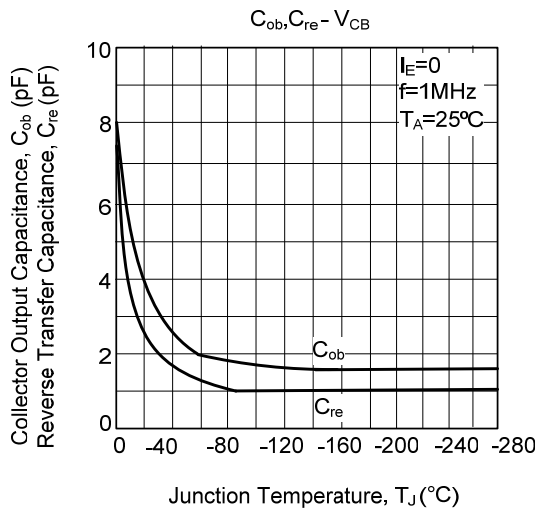
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -200\text{V}, I_E = 0$			-10	nA
		$V_{CB} = -200\text{V}, I_E = 0, T_J = 150^{\circ}\text{C}$			-10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$			-50	nA
DC current gain	h_{FE}	$V_{CE} = -20\text{V}, I_C = -25\text{mA}$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -30\text{mA}, I_B = -5\text{mA}$			-0.6	V
Transition frequency	f_T	$V_{CE} = -10\text{V}, I_C = -10\text{mA}, f = 100\text{MHz}$	60			MHz
Feedback capacitance	C_{re}	$V_{CB} = -30\text{V}, I_E = 0, f = 1\text{MHz}$			1.6	pF

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS (Cont.)



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