

UTC BF422

NPN EPITAXIAL SILICON TRANSISTOR

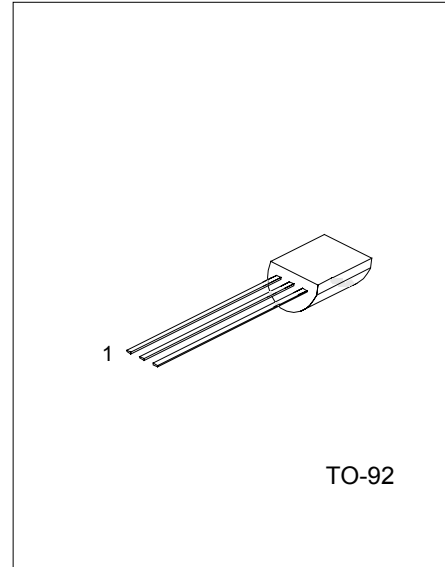
HIGH VOLTAGE TRANSISTOR

FEATURES

- *Collector-Emitter Voltage: $V_{CE0}=250V$.
- *Complementary to BF423.

APPLICATIONS

- * High voltage application.
- * Monitor equipment application.



1: EMITTER 2: COLLECTOR 3: BASE

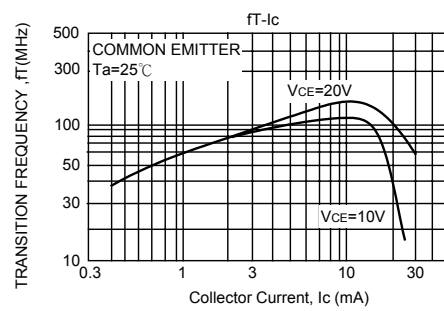
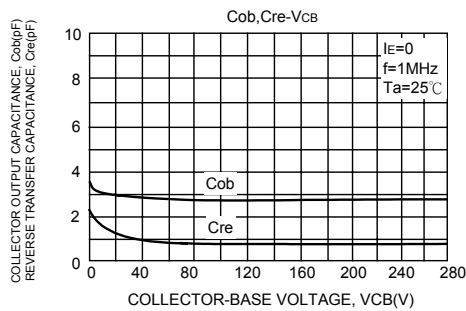
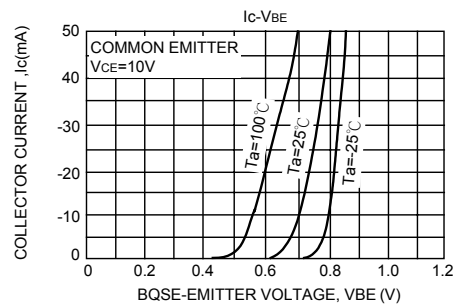
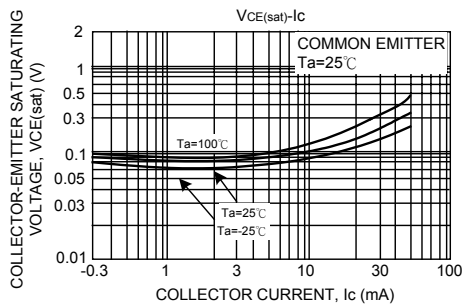
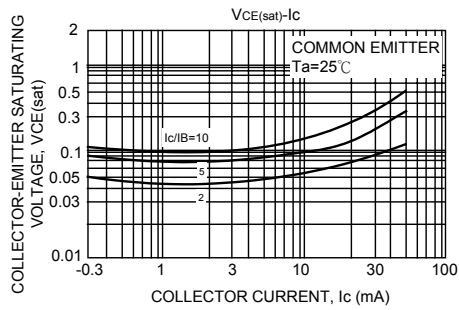
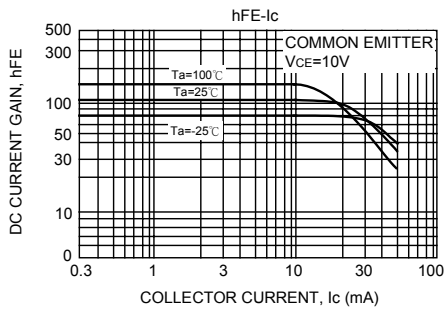
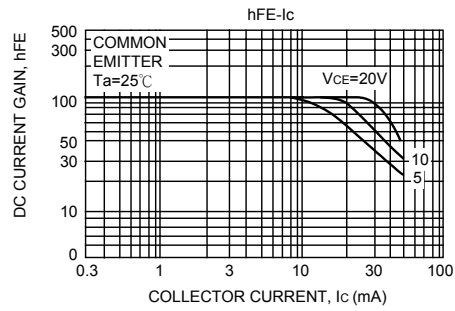
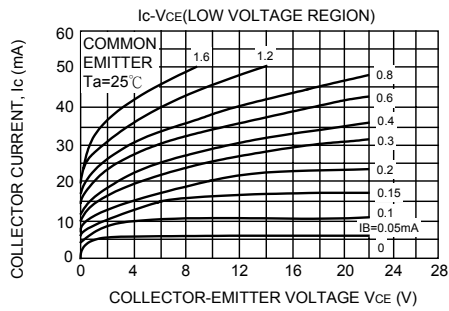
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

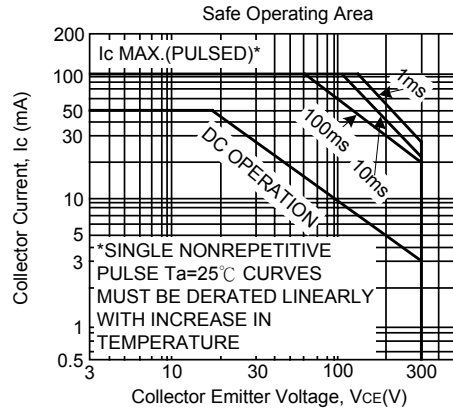
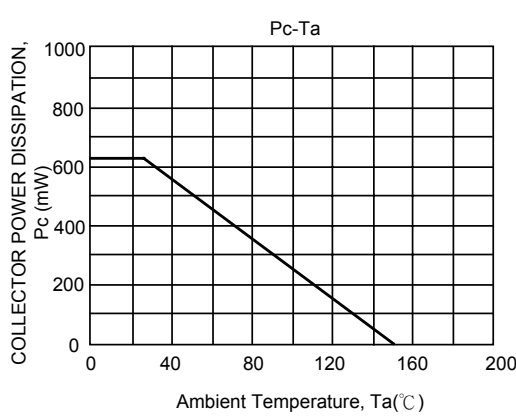
PARAMETERS	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CB0}	250	V
Collector-Emitter Voltage	V_{CE0}	250	V
Emitter-base voltage	V_{EB0}	5	V
Collector current (DC)	I_c	50	mA
collector current (Peak)	I_{cP}	100	mA
base current	I_b	50	mA
Collector Power dissipation	P_c	625	mW
Junction temperature	T_j	150	°C
Storage Temperature	T_{stg}	-65~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Collector Cut-Off Current	I_{CBO}	$V_{CB}=200V, I_E=0$			10	nA
		$V_{CB}=-200V, I_E=0, T_j=150°C$			10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5V, I_c=0$			50	nA
DC current gain	h_{FE}	$V_{CE}=20V, I_c=25mA$	50			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c=30mA, I_b=5mA$			0.6	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-20V, I_c=25mA$		0.75		V
Transition frequency	f_T	$V_{CE}=10V, I_c=10mA$	60			MHz
Reverse Transfer Capacitance	C_{re}	$V_{CB}=30V, I_E=0, f=1MHz$			1.6	pF

TYPICAL CHARACTERISTICS





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