



BD237

NPN EPITAXIAL SILICON TRANSISTOR

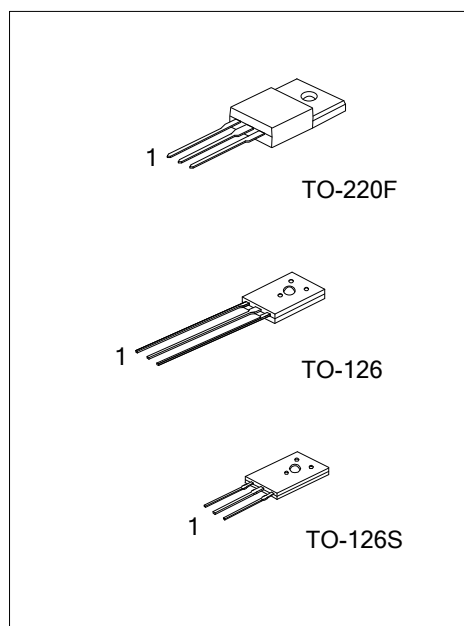
80V NPN TRANSISTORS

DESCRIPTION

The UTC **BD237** is an NPN transistor. it uses UTC's advanced technology to provide customers with high collector-emitter breakdown voltage, etc.

FEATURES

- * Complement to UTC **BD238** respectively
- * High collector-emitter breakdown voltage



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BD237L-T60-K	BD237G-T60-K	TO-126	E	C	B	Bulk
BD237L-T6S-K	BD237G-T6S-K	TO-126S	E	C	B	Bulk
BD237L-TF3-T	BD237G-TF3-T	TO-220F	E	C	B	Tube
BD237L-TF3-F-T	BD237G-TF3-F-T	TO-220F	B	C	E	Tube

Note: Pin assignment: E: Emitter B: Base C: Collector

BD237G-TF3-F-K (1) Packing Type (2) Pin Assignment (3) Package Type (4) Green Package	(1) K: Bulk, T: Tube (2) refer to Pin Assignment (3) T60: TO-126, T6S: TO-126S, TF3: TO-220F (4) G: Halogen Free and Lead Free, L: Lead Free
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MARKING

TO-220F	TO-126 / TO-126S
Pin Code ← UTC BD237 □ → L: Lead Free Lot Code ← □ □ □ □ □ □ → G: Halogen Free → Date Code 1	UTC □ □ □ □ → Date Code BD237 □ → L: Lead Free → G: Halogen Free 1

■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Continuous Collector Current	I_C	2	A
Collector Dissipation	TO-126/TO-126S	P_C	1.25
	TO-220F		1.6
Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

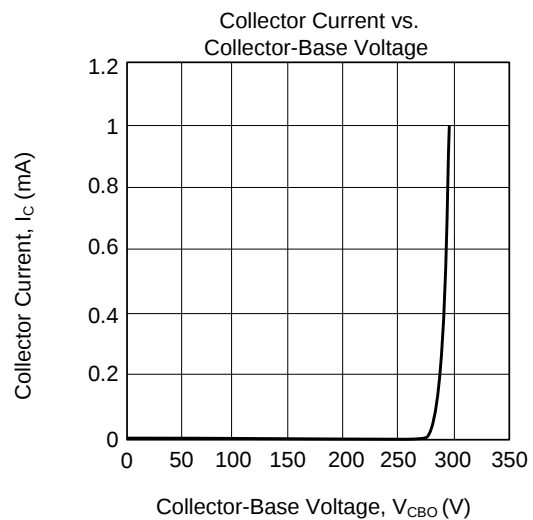
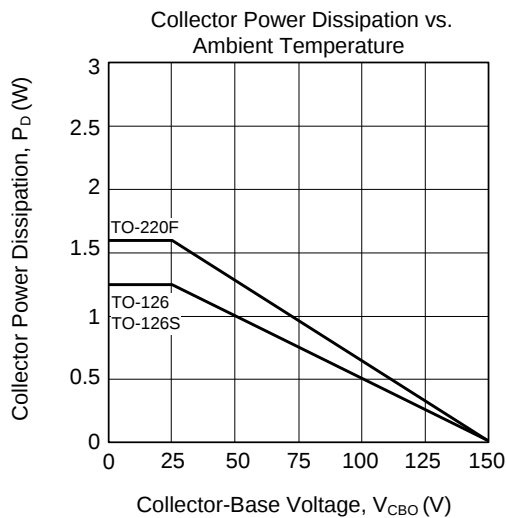
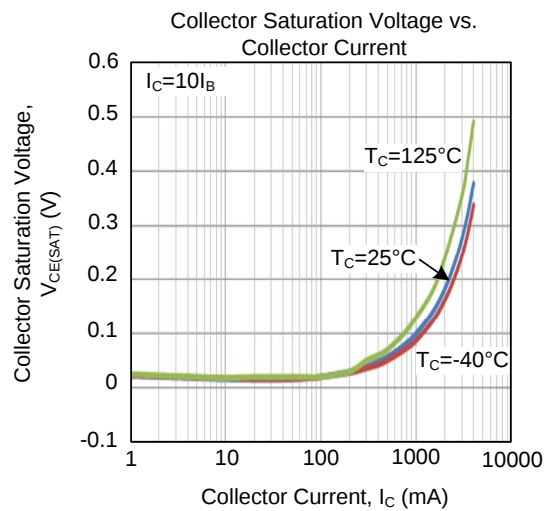
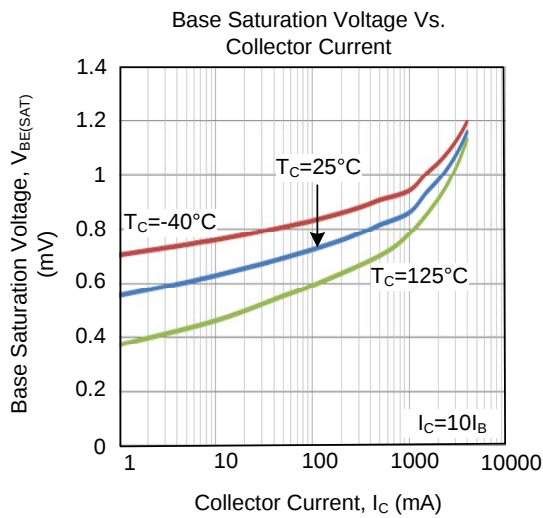
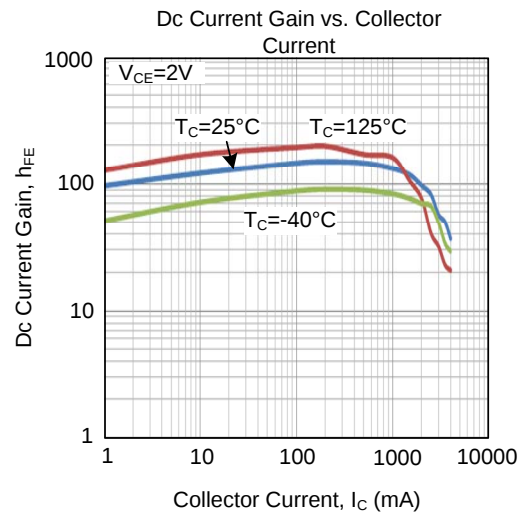
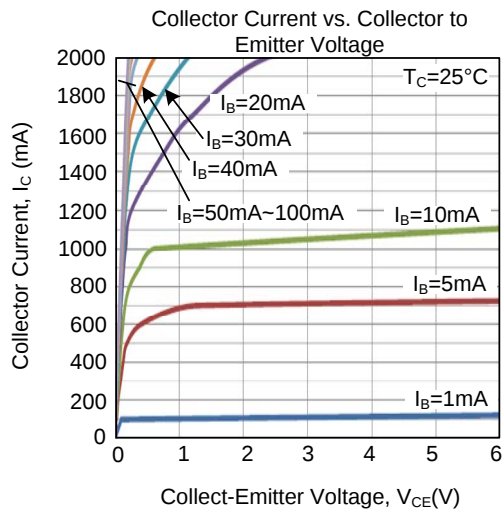
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

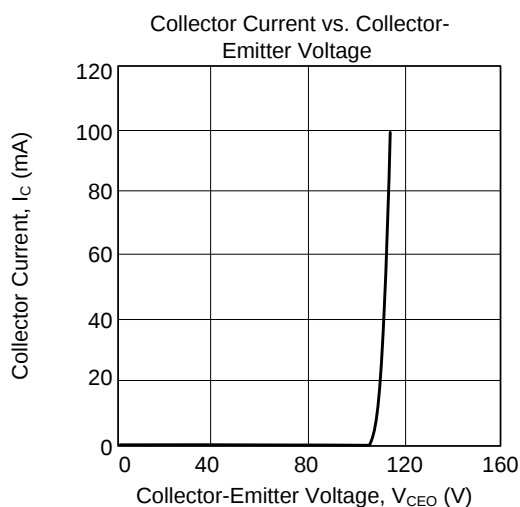
■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=1\text{mA}$, $I_E=0$	100			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=100\text{mA}$, $I_B=0$	80			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=1\text{mA}$, $I_C=0$	5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=100\text{V}$, $I_E=0$			100	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$			1	mA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1\text{A}$, $I_B=100\text{mA}$			0.6	V
DC Current Gain	$h_{FE}(1)$	$I_C=150\text{mA}$, $V_{CE}=2\text{V}$	40			
	$h_{FE}(2)$	$I_C=1\text{A}$, $V_{CE}=2\text{V}$	25			
Transition Frequency	f_T	$I_C=250\text{mA}$, $V_{CE}=10\text{V}$, $f=10\text{MHz}$	3			MHz

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS (Cont.)



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