

UTC UNISONIC TECHNOLOGIES CO., LTD

BD237

NPN EPITAXIAL SILICON TRANSISTOR

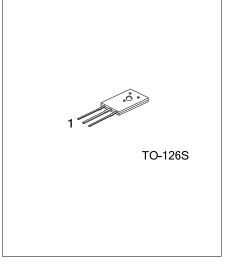
80V, NPN TRANSISTORS

DESCRIPTION

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

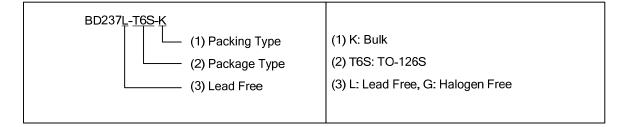
FEATURES

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



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BD237L-T6S-K	BD237G-T6S-K	TO-126S	E	С	В	Bulk	





UNISONIC TECHNOLOGIES CO., LTD

BD237

NPN EPITAXIAL SILICON TRANSISTOR

■ **ABSOLUTE MAXIMUM RATINGS** (T_A=25°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	lc	2	А
Collector Dissipation	Pc	1.25	W
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-65~150	°C

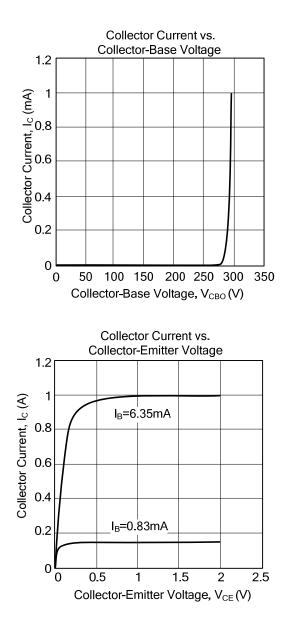
Note: Absolute maximum ratings are stress ratings only and functional device operation is not implied. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

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

PARAMETER SYM		TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =1mA, I _E =0	100			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =100mA, I _B =0	80			V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E=1mA$, $I_C=0$	5			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =100V, I _E =0			100	μA
Emitter Cut-Off Current	I _{EBO}	$V_{EB}=5V, I_{C}=0$			1	mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =100mA			0.6	V
DC Current Coin	h _{FE} (1)	I _C =150mA,V _{CE} =2V	40			
DC Current Gain	h _{FE} (2)	I _C =1A,V _{CE} =2V	25			
Transition Frequency	f _T	I _C =250mA, V _{CE} =10V, f=10MHz	3			MHz

NPN EPITAXIAL SILICON TRANSISTOR

TYPICAL CHARACTERISTICS



Collector Current vs. Collector-Emitter Voltage 120 (V) 100 (V) 80 (V) 80

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

