

UNISONIC TECHNOLOGIES CO., LTD

BD238

PNP EPITAXIAL SILICON TRANSISTOR

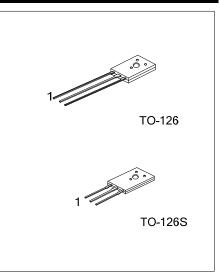
-80V, PNP TRANSISTOR

DESCRIPTION

The UTC **BD238** is a PNP epitaxial planar transistor, it uses UTC's advanced technology to provide the customers with high DC current gain and high collector-emitter breakdown voltage, etc.

FEATURES

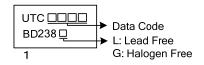
- * High DC current gain
- * High collector-emitter breakdown voltage



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Docking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BD238L-T60-K	L-T60-K BD238G-T60-K		E	С	В	Bulk	
BD238L-T6S-K	BD238G-T6S-K	TO-126S	E	С	В	Bulk	
Note: Pin assignment: E: Emitter B: Base C: Collector							
BD238 <u>L-T60-K</u>	(1) K: Bulk (2) T60: TO-126, T6S: TO-126S (3) L: Lead Free, G: Halogen Free and Lead Free						

MARKING





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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

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
Collector Current	lc	-2	А
Collector Power Dissipation	Pc	1.25	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55~150	°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.

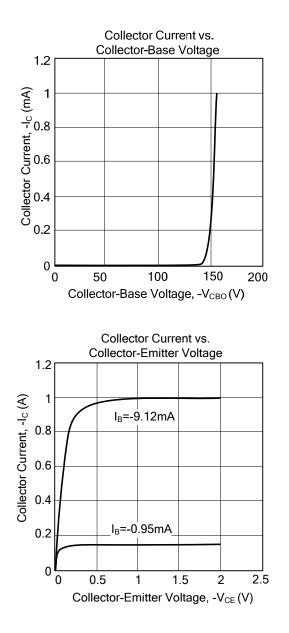
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

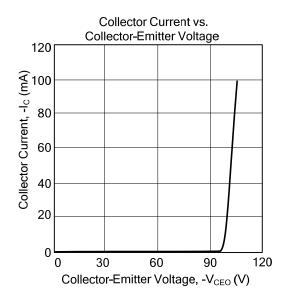
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =-1mA, I _E =0	-100			V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-100mA, I _B =0	-80			V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _C =-1mA, I _E =0	-5			V
Collector Cut-Off Current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



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TYPICAL CHARACTERISTICS





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