UTC UNISONIC TECHNOLOGIES CO., LTD

BD238

PNP EPITAXIAL SILICON TRANSISTOR

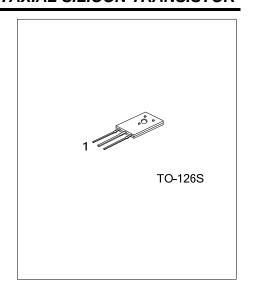
-80V, PNP TRANSISTOR

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.

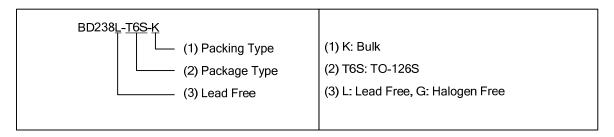
FEATURES

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



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BD238L-T6S-K	BD238G-T6S-K	TO-126S	Е	С	В	Bulk	



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PNP EPITAXIAL SILICON TRANSISTOR

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

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	$V_{\sf CEO}$	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	Ic	-2	Α
Collector Power Dissipation	Pc	1.25	W
Junction Temperature	T_J	150	ç
Storage Temperature	T _{STG}	-55~150	ç

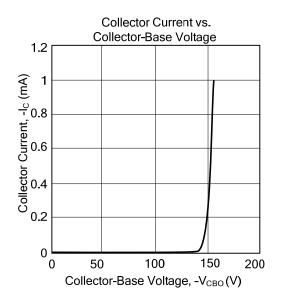
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

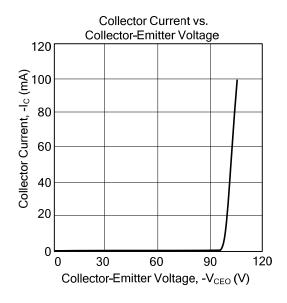
ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

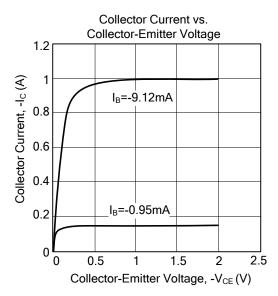
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-1mA$, $I_E=0$	-100			V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-100mA, I _B =0	-80			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_C=-1mA$, $I_E=0$	-5			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-100V, I _E =0			-100	μΑ
Emitter Cut-Off Current	I _{EBO}	V_{EB} =-5 V , I_{C} =0			-1	mΑ
DO 0 10 :	h _{FE(1)}	V _{CE} =-2V, I _C =-150mA	40			
DC Current Gain	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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