

UNISONIC TECHNOLOGIES CO., LTD

BD435

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

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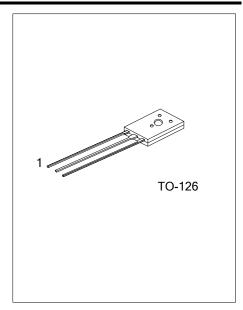
DESCRIPTION

The UTC **BD435** is a NPN epitaxial silicon transistor, it uses UTC's advanced technology to provide the customers with high DC current gain, etc.

The UTC **BD435** is suitable for medium power linear and switching applications.

FEATURES

* High DC current gain



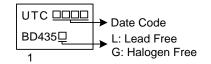
ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Deelvine	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BD435L-T60-K BD435G-T60-K		TO-126	В	С	Е	Bulk	
BD435L-T60-K	BD435G-T60-K	TO-126	В	С	Е	Bulk	
Note: Pin Assignment: B: Ba	E: Emitter						

	DD425C TEO K		
	BD435G-160-K		

BD435G-160-K		
T T T		
(1) Packing Type	(1) K: Bulk	
(2) Package Type	(2) T60: TO-126	
(3) Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free	

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_C=25°C, unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	32	V
Collector-Emitter Voltage	V _{CEO}	32	V
Collector-Emitter Voltage	V _{CES}	32	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current (DC)	Ι _C	4	А
Collector Current (Pulse) (Note 1)	I _{CP}	7	А
Base Current	Ι _Β	1	А
Collector Dissipation (T _C =25°C)	Pc	36	W
Junction Temperature	TJ	+150	°C
Storage Temperature	T _{STG}	-65 ~ +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_c=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Sustaining Voltage	V _{CEO(SUS)}	I _C =100mA, I _B =0A	32			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =32V, I _E =0			100	μA
Collector Cut-Off Current	I _{CEO}	V _{CE} =32V, V _{BE} =0			100	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5V, I _C =0			1	mA
DC Current Gain (Note 1)		V _{CE} =5V, I _C =10mA	40	130		
	h _{FE}	V _{CE} =1V, I _C =500mA	85	140		
		V _{CE} =1V, I _C =2A	50			
Collector-Emitter Saturation Voltage (Note 1)	V _{CE(SAT)}	I _C =2A, I _B =0.2A		0.2	0.5	V
Base-Emitter ON Voltage (Note 1)	V _{BE(ON)}	V _{CE} =1V, I _C =2A			1.1	V
Current Gain Bandwidth Product	f⊤	V _{CE} =1V, I _C =250mA	3			MHz

Note: Pulse Test: P_W =300µs, duty Cycle=1.5% Pulsed



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