UNISONIC TECHNOLOGIES CO., LTD

BD435

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

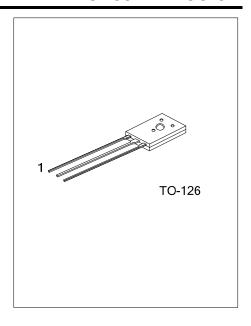
NPN EPITAXIAL SILICON TRANSISTOR

■ 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.

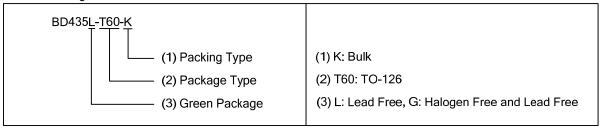
■ FEATURES



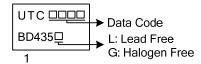
ORDERING INFORMATION

Ordering Number		Doolsone	Pin Assignment			Dealine	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BD435L-T60-K	BD435G-T60-K	TO-126	K	Α	G	Bulk	
BD435L-T60-K	BD435G-T60-K	TO-126	K	Α	G	Bulk	

Note: Pin assignment: G: Gate K: Cathode A: Anode



MARKING



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^{*} High DC current gain

■ 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)	I _C	4	Α
Collector Current (Pulse) (Note 1)	I _{CP}	7	Α
Base Current	Ι _Β	1	Α
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} =5 V , I_{C} =0			1	mA
		V_{CE} =5V, I_{C} =10mA	40	130		
DC Current Gain (Note 1)	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_T	V _{CE} =1V, I _C =250mA	3			MHz

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

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