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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

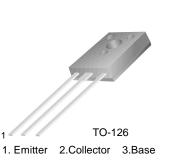
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BD234/236/238

Medium Power Linear and Switching Applications

Complement to BD 233/235/237 respectively



PNP Epitaxial Silicon Transistor

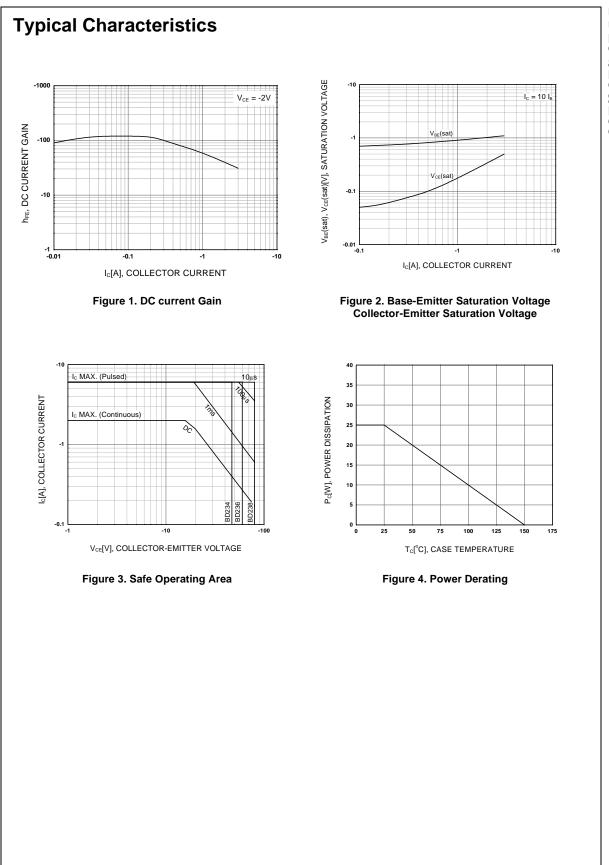
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: BD234	- 45	V
	: BD236	- 60	V
	: BD238	- 100	V
V _{CEO}	Collector-Emitter Voltage		
	: BD234	- 45	V
	: BD236	- 60	V
	: BD238	- 80	V
V _{CER}	Collector-Emitter Voltage		
	: BD234	- 45	V
	: BD236	- 60	V
	: BD238	- 100	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current (DC)	- 2	А
I _{CP}	*Collector Current (Pulse)	- 6	А
I _{CP} P _C T _J	Collector Dissipation (T _C =25°C)	25	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

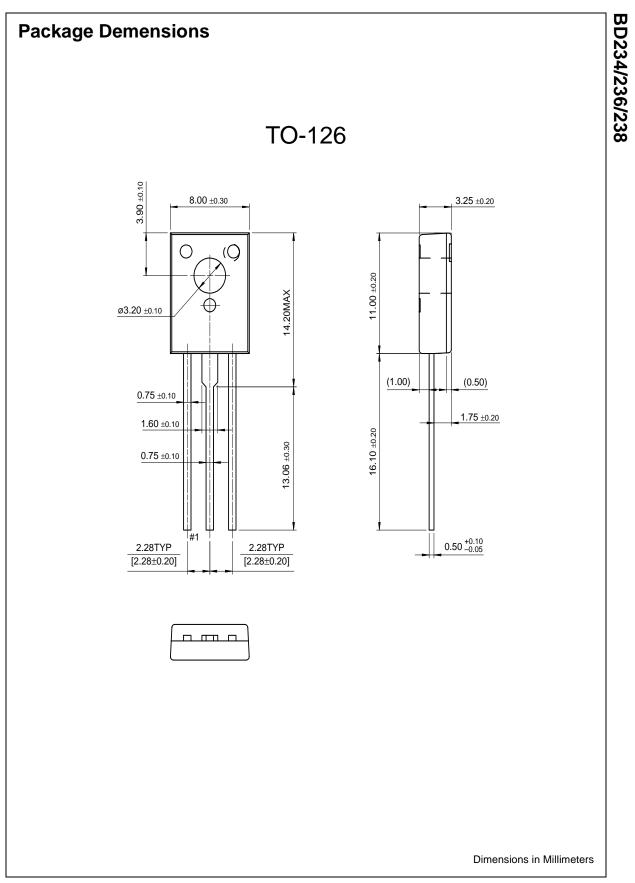
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage					
	: BD234	I _C = - 100mA, I _B = 0	- 45			V
	: BD236		- 60			V
	: BD238		- 80			V
I _{CBO}	Collector Cut-off Current					
	: BD234	$V_{CB} = -45V, I_E = 0$			- 100	μA
	: BD236	$V_{CB} = -60V, I_E = 0$			- 100	μA
	: BD238	$V_{CB} = -100V, I_E = 0$			- 100	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	mA
h _{FE}	* DC Current Gain	V _{CE} = - 2V, I _C = - 150mA	40			
		$V_{CE} = -2V, I_{C} = -1A$	25			
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 1A , I _B = - 0.1A			- 0.6	V
V _{BE} (on)	* Base-Emitter ON Voltage	$V_{CE} = -2V, I_{C} = -1A$			- 1.3	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -250mA$	3			MH

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BD234/236/238



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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