BD234 BD236 BD238

SILICON PNP POWER TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR BD234, BD236, and BD238 are silicon PNP power transistors designed for medium power amplifier and switching applications.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T_A=25°C unless otherwise noted) SYMBOL

SYMBOL	BD234	BD236	BD238	UNITS
V_{CBO}	45	60	100	V
VCER	45	60	100	V
V_{CEO}	45	60	80	V
V_{EBO}		5.0		V
IC		2.0		Α
I _{CM}		6.0		Α
P_{D}		25		W
T _J , T _{stg}		-65 to +150		°C
	VCBO VCER VCEO VEBO IC ICM PD	VCBO 45 VCER 45 VCEO 45 VEBO IC ICM PD	VCBO 45 60 VCER 45 60 VCEO 45 60 VEBO 5.0 IC 2.0 ICM 6.0 PD 25	VCBO 45 60 100 VCER 45 60 100 VCEO 45 60 80 VEBO 5.0 1C 2.0 ICM 6.0 6.0 6.0 PD 25 6.0 6.0

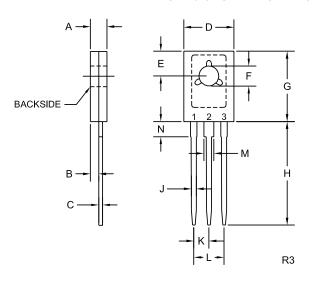
ELECTRICAL	CHARACTERISTICS: (T _C =25°C)	BD	<u> 234</u>	BD	236	BD	<u> 238</u>	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =Rated V _{CBO}	-	100	-	100	-	100	μΑ
I _{EBO}	V _{EB} =5.0V	-	1.0	-	1.0	-	1.0	mA
BVCEO	I _C =100mA	45	-	60	-	80	-	V
V _{CE} (SAT)	I _C =1.0A, I _B =100mA	-	0.6	-	0.6	-	0.6	V
V _{BE(ON)}	V_{CE} =2.0V, I_{C} =1.0A	-	1.3	-	1.3	-	1.3	V
hFE	V_{CE} =2.0V, I_{C} =150mA	40	-	40	-	40	-	
h _{FE}	V_{CE} =2.0V, I_{C} =1.0A	25	-	25	-	25	-	
f_{T}	V_{CE} =10V, I_{C} =250mA	3.0	-	3.0	-	3.0	-	MHz

BD234 BD236 BD238

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TO-126 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.094	0.110	2.40	2.80		
В	0.0	50	1.27			
С	0.015	0.030	0.38	0.75		
D	0.291	0.335	7.40	8.50		
Е	0.148		3.75			
F	0.118	0.134	3.00	3.40		
G	0.413	0.472	10.50	12.00		
Н	0.618		15.70			
J	0.024	0.035	0.62	0.90		
K	0.089		2.25			
L	0.177		4.50			
M	0.045	0.055	1.14	1.40		
N	0.083		2.10			

TO-126 (REV:R3)

LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

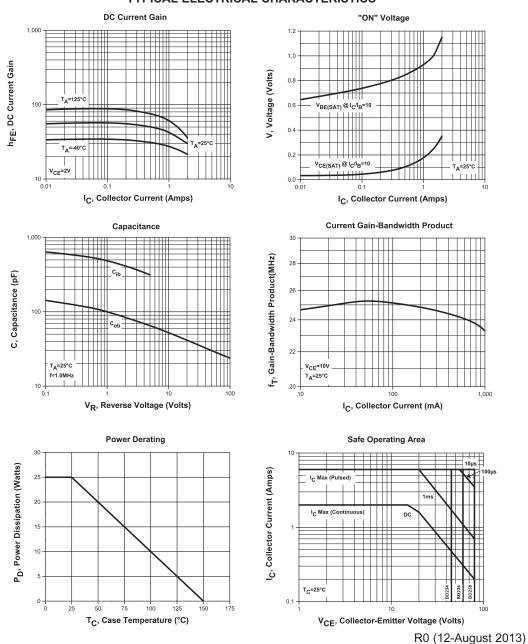
MARKING: FULL PART NUMBER

BD234 BD236 BD238

SILICON PNP POWER TRANSISTORS



TYPICAL ELECTRICAL CHARACTERISTICS



OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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