



گروه فنی مهندسی جوش و برش مقدم

اعتماد از شما کیفیت و تخصص از ما



09153223758



051-37581400



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مشهد خیام شمالی 63 خیابان پردیس 3

برای کسب اطلاعات بیشتر بر روی لینک ها کلیک کنید

- 7 سال سابقه آموزش تعمیرات تخصصی دستگاه های جوش اینورتری تک فاز و 3 فاز
- 7 سال سابقه فروش قطعات الکترونیکی دستگاه جوش تک فاز و 3 فاز
- آموزش تخصصی تحلیل دستگاه های جوش اینورتری مختص ابراز فروشان
- آموزش تخصصی ابراز آلات شارژی

PNP Epitaxial Silicon Transistor

BD136 Series

BD136 / BD138 / BD140

Applications

- Complement to BD135, BD137 and BD139 Respectively
- These are Pb-Free Devices

ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

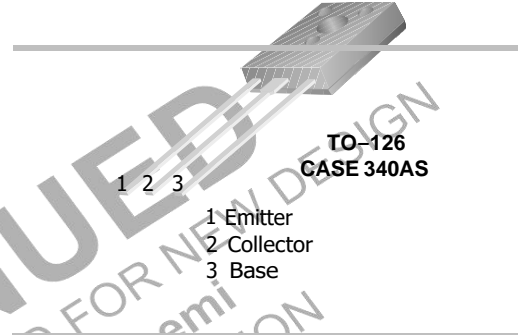
www.onsemi.com

Rating	Symbol	Max	Unit
Collector-Base Voltage BD136 BD138 BD140	V_{CBO}	-45 -60 -80	V
Collector-Emitter Voltage BD136 BD138 BD140	V_{CEO}	-45 -60 -80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-1.5	A
Collector Current (Pulse)	I_{CP}	-3.0	A
Base Current	I_B	-0.5	A

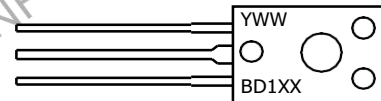
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS

Rating	Symbol	Max	Unit
Collector Dissipation	P_C	12.5	W
Collector Dissipation ($T_A = 25^\circ\text{C}$)	P_C	1.25	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$



MARKING DIAGRAM



Y = Year
 WW = Work Week
 BD1XX = Specific Device Code
 XX = 36, 38, 40

ORDERING INFORMATION

Device	Package	Shipping
BD13610STU	TO-126 (Pb-Free)	60 Units/ Tube
BD13610S		500 Units/ Bulk Box
BD13616STU		60 Units/ Tube
BD13616S		500 Units/ Bulk Box
BD13810STU		60 Units/ Tube
BD13816STU		60 Units/ Tube
BD14010STU		60 Units/ Tube
BD14016STU		60 Units/ Tube
BD14016S		500 Units/ Bulk Box

BD136 Series

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage (Note 1) BD136 BD138 BD140	I _C = -30 mA, I _B = 0	-45 -60 -80			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -30 V, I _E = 0			-0.1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5 V, I _C = 0			-10	μA
h _{FE1}	DC Current Gain (Note 1)	V _{CE} = -2 V, I _C = -5 mA	25			
h _{FE2}		V _{CE} = -2 V, I _C = -150 mA BD13610/BD13810/BD14010 BD13616/BD13816/BD14016	63 100		160 250	
h _{FE3}		V _{CE} = -2 V, I _C = -500 mA	25			
V _{CE(sat)}		Collector-Emitter Saturation Voltage (Note 1)	I _C = 500 mA, I _B = 50 mA			-0.5
V _{BE(on)}	Base-Emitter ON Voltage (Note 1)	V _{CE} = -2 V, I _C = -0.5 A			-1	V

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

1. Pulse Test: PW = 350 μs, duty Cycle = 2% Pulsed

TYPICAL PERFORMANCE CHARACTERISTICS

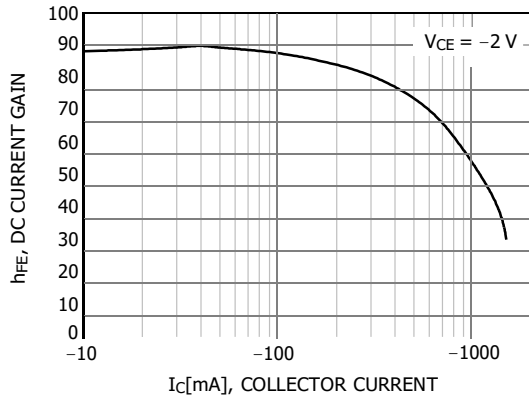


Figure 1. DC Current Gain

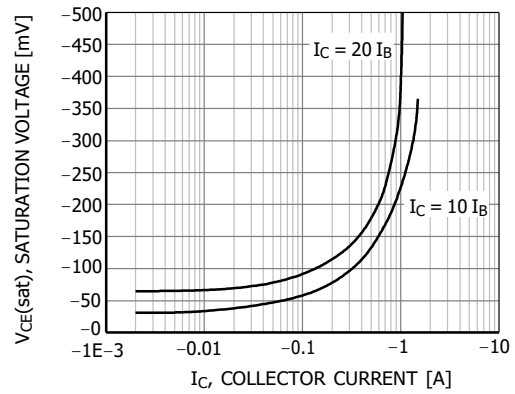


Figure 2. Collector-Emitter Saturation Voltage

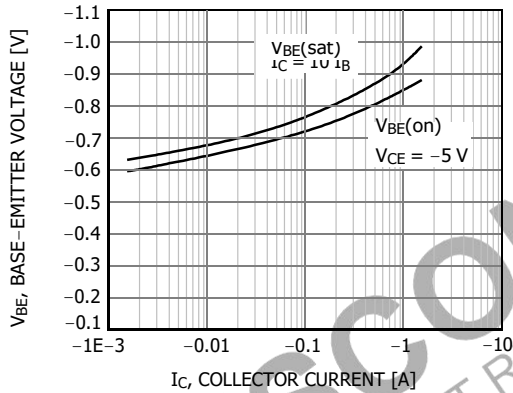


Figure 3. Base-Emitter Voltage

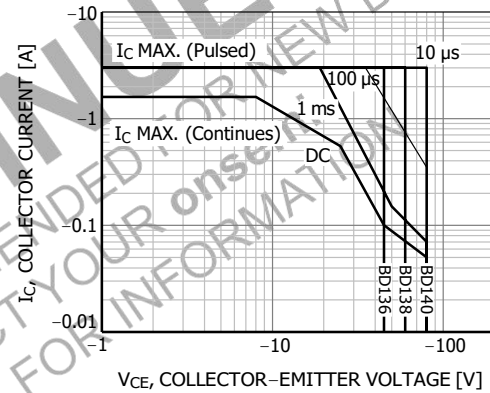


Figure 4. Safe Operating Area

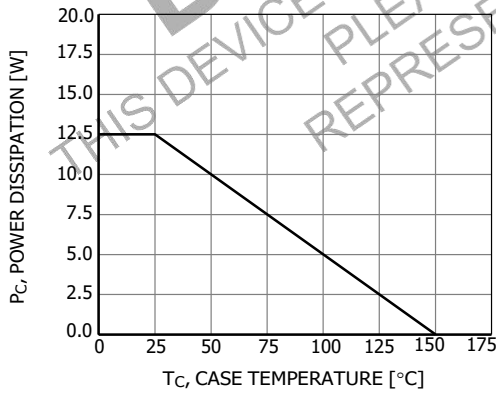


Figure 5. Power Derating



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