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 SiliconTransistor

BD136 Series

BD136 / BD138 / BD140

Applications

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

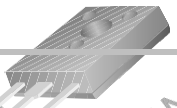
ABSOLUTE MAXIMUM RATINGS (T_C = 25°C unless otherwise noted)
www.onsemi.com

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°C)	P_C	1.25	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	−55~150	°C

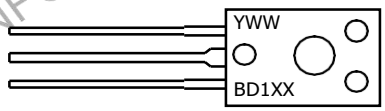


TO−126
CASE 340AS

1 2 3

1 Emitter
2 Collector
3 Base

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

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
V_{CEO}(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	63		160	
		BD13616/BD13816/BD14016	100		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
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

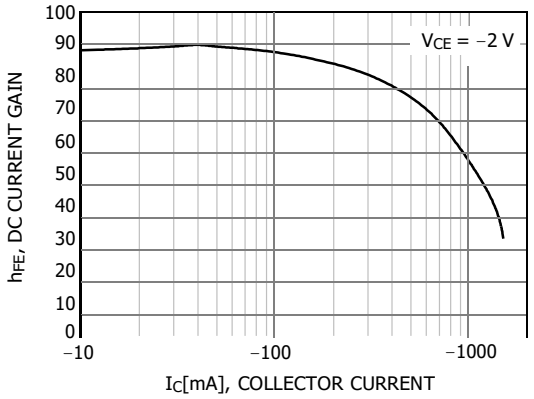


Figure 1. DC Current Gain

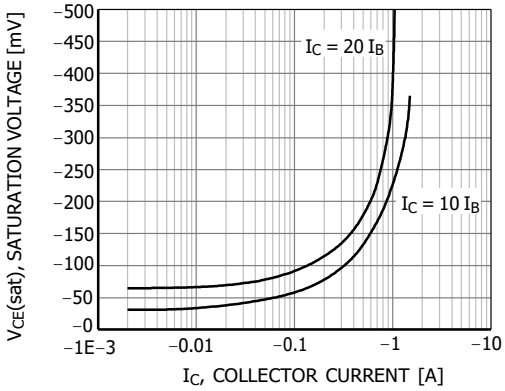


Figure 2. Collector−Emitter Saturation Volatage

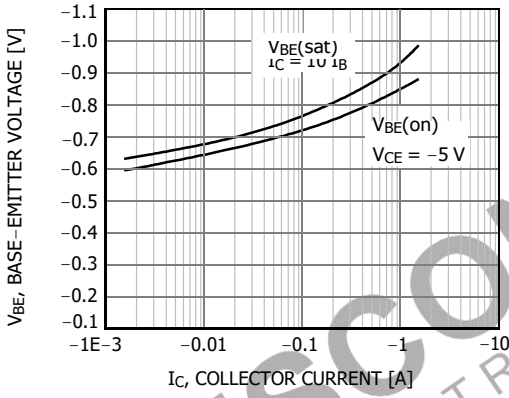


Figure 3. Base−Emitter Voltage

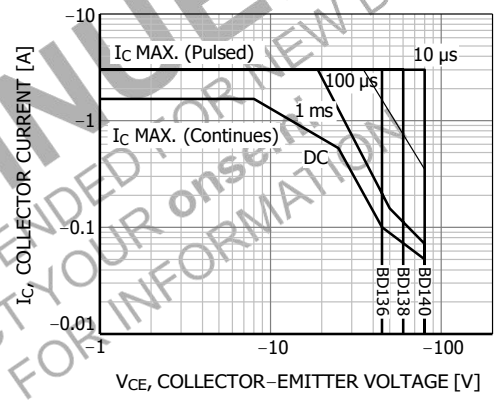


Figure 4. Safe Operating Area

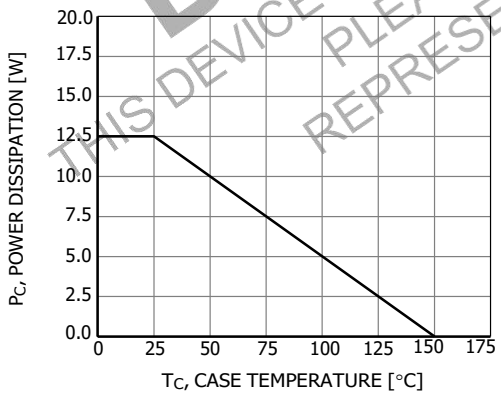


Figure 5. Power Derating

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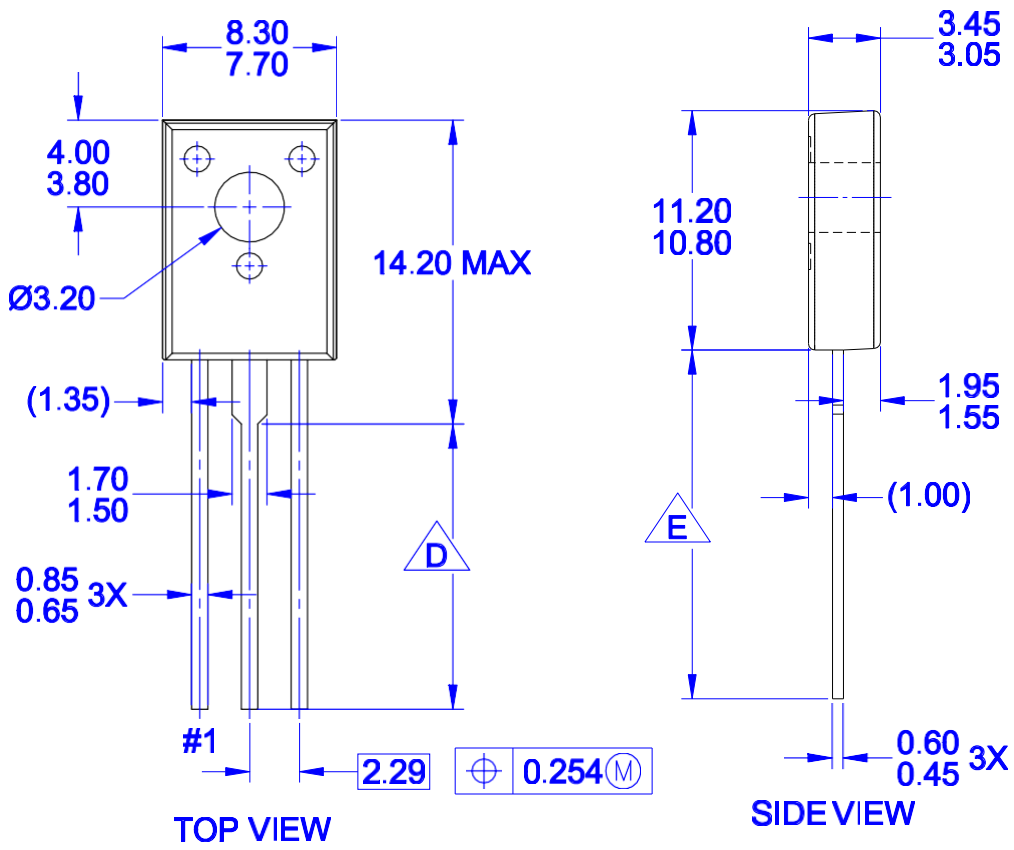
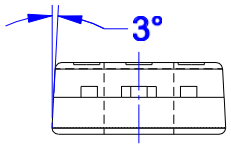
ISSUE O

DATE 30 SEP 2016





PRODUCTION CODE	TERMINAL LENGTH "D"	TERMINAL LENGTH "E"
TSSTU	3.45 - 4.05	6.45 - 7.45
TSTU	2.36 - 2.96	5.36 - 6.36
NONE (STD LENGTH)	12.76 - 13.36	15.76 - 16.76

NOTES:

A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE
B. ALL DIMENSIONS ARE IN MILLIMETERS
C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR PROTRUSIONS

△D FOR TERMINAL LENGTH "D", REFER TO TABLE

△E FOR TERMINAL LENGTH "E", REFER TO TABLE

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DESCRIPTION:	**TO−126−3LD**		**PAGE 1 OF 1**

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