

# **Zener Diodes**

# BZX85C10 - BZX85C16

### **ABSOLUTE MAXIMUM RATINGS**

Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

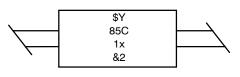
Symbol	Parameter	Value	Unit
P <sub>D</sub>	Power Dissipation @ T <sub>A</sub> = 25°C	1.0	W
	Power Dissipation @ T <sub>L</sub> = 25°C at 4 mm distance from the glass package	1.3	
	Derate above 50°C	6.67	mW/°C
T <sub>J</sub> , T <sub>STG</sub>	Operating Junction Temperature Range	-65 to +200	°C

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.



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#### **MARKING DIAGRAM**



\$Y = Logo

85C = Specific Device Code 1x = Specific Device Code x = 0, 1, 2, 3, 5, 6

&2 = 2-Digit Date Code Format

#### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 2 of this data sheet.

### **ELECTRICAL CHARACTERISTICS** Values are at $T_A = 25$ °C unless otherwise noted.

	Zener Voltage (Note 1)			Zener Impedance			Leakage Current	
	Vz	: (V)	IZ	Z <sub>Z</sub> @ I <sub>Z</sub>	@ I <sub>Z</sub>		I <sub>R</sub> @ V <sub>R</sub>	
Device	Min.	Max.	mA	(Ω)	(Ω)	(mA)	μΑ Мах.	V
BZX85C10	9.4	10.6	25	7	200	0.5	0.5	7
BZX85C11	10.4	11.6	20	8	300	0.5	0.5	7.7
BZX85C12	11.4	12.7	20	9	350	0.5	0.5	8.4
BZX85C13	12.4	14.1	20	10	400	0.5	0.5	9.1
BZX85C15	13.8	15.6	15	15	500	0.5	0.5	10.5
BZX85C16	15.3	17.1	15	15	500	0.5	0.5	11
V <sub>F</sub> Forward Voltage = 1.2 V Max. @ I <sub>F</sub> = 200 mA								

Zener Voltage (V<sub>Z</sub>). The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T<sub>L</sub>) at 30°C ±1°C and 3/8" lead length.

#### **MARKING INFORMATION**

Device	Line 1	Line 2	Line 3	Line 4	Line 5
BZX85C10	LOGO	85C	10		XY
BZX85C11			11		
BZX85C12			12		
BZX85C13			13		
BZX85C15			15		
BZX85C16			16		

## **BZX85C10 - BZX85C16**

### **ORDERING INFORMATION**

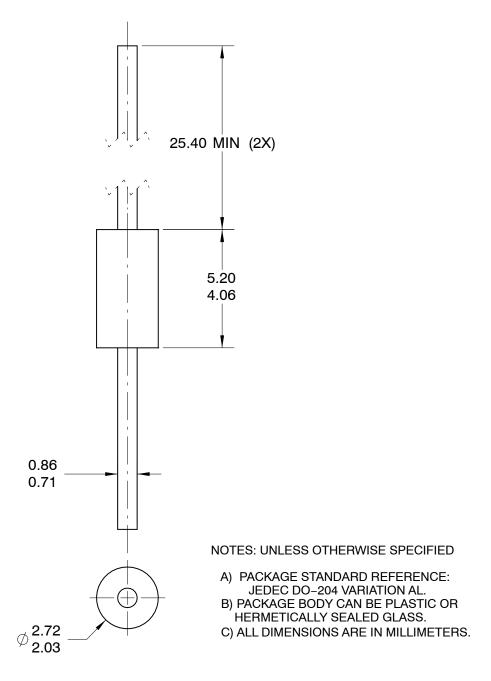
Part Number	Package	Shipping <sup>†</sup>
BZX85C10	Axial Lead / DO-41	3000 / Bulk Bag
BZX85C10-T50R	1	3000 / Tape & Reel
BZX85C11	1	3000 / Bulk Bag
BZX85C12	1	3000 / Bulk Bag
BZX85C12-T50R	]	3000 / Tape & Reel
BZX85C13	]	3000 / Bulk Bag
BZX85C15	]	3000 / Bulk Bag
BZX85C15-T50A	]	3000 / Fan-Fold
BZX85C15-T50R	]	3000 / Tape & Reel
BZX85C16		3000 / Bulk Bag

<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.



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**DATE 31 AUG 2016** 



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## onsemi:

BZX85C3V9 BZX85C7V5 BZX85C30 BZX85C18 BZX85C4V7 BZX85C15 BZX85C36 BZX85C12 BZX85C24

BZX85C5V1 BZX85C3V3 BZX85C9V1 BZX85C6V2 BZX85C16 BZX85C4V3 BZX85C8V2 BZX85C11 BZX85C33

BZX85C20 BZX85C6V8 BZX85C13 BZX85C47 BZX85C5V6 BZX85C3V6 BZX85C22 BZX85C10 BZX85C36
T50R BZX85C13-T50A BZX85C5V6-T50R BZX85C15-T50A BZX85C15-T50R BZX85C12-T50A BZX85C12-T50A

BZX85C16-T50A BZX85C18-T50R BZX85C18-T50A BZX85C6V2-T50A BZX85C24-T50R BZX85C10-T50A

BZX85C10-T50R BZX85C5V1-T50A