# **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.



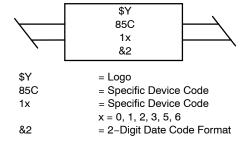
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AXIAL LEAD / DO-41 CASE 017AH

#### **MARKING DIAGRAM**



### **ORDERING INFORMATION**

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

# BZX85C10 - BZX85C16

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

	Zener Voltage (Note 1) Zener Impedance				Leakage Current			
	Vz	(V)	Iz	Z <sub>Z</sub> @ I <sub>Z</sub>	Z <sub>Z</sub> @ I <sub>Z</sub> Z <sub>ZK</sub> @ I <sub>ZK</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								

<sup>1.</sup> Zener Voltage  $(V_Z)$ . The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature  $(T_L)$  at 30°C  $\pm$ 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		

# **ORDERING INFORMATION**

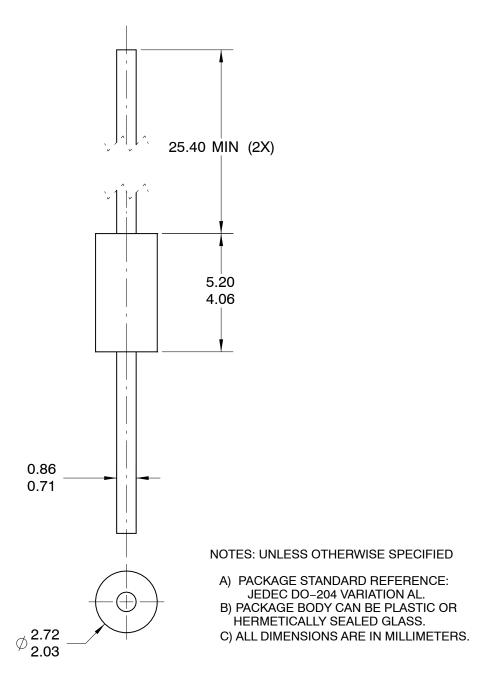
Part Number	Package	Shipping <sup>†</sup>
BZX85C10	Axial Lead / DO-41	3000 / Bulk Bag
BZX85C10-T50R		3000 / Tape & Reel
BZX85C11		3000 / Bulk Bag
BZX85C12		3000 / Bulk Bag
BZX85C12-T50R		3000 / Tape & Reel
BZX85C13		3000 / Bulk Bag
BZX85C15		3000 / Bulk Bag
BZX85C15-T50A		3000 / Fan-Fold
BZX85C15-T50R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