Zener Diodes

BZX85C10 - BZX85C16

ABSOLUTE MAXIMUM RATINGS

Values are at T_A = 25°C unless otherwise noted.

Symbol	Parameter	Value	Unit
P_D	Power Dissipation @ T_A = 25°C	1.0	W
	Power Dissipation @ T_L = 25°C at 4 mm distance from the glass package	1.3	
	Derate above 50°C	6.67	mW/°C
T_J, T_{STG}	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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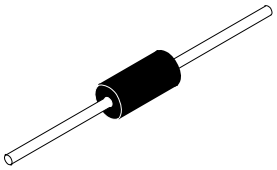

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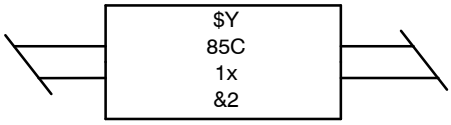
MARKING DIAGRAM



$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.

Device	Zener Voltage (Note 1)			Zener Impedance			Leakage Current	
	V_Z (V)		I_Z	Z_Z @ I_Z	Z_{ZK} @ I_{ZK}		I_R @ V_R	
	Min.	Max.	mA	(Ω)	(Ω)	(mA)	μA Max.	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_F Forward Voltage = 1.2 V Max. @ I_F = 200 mA								

1. 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 ±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†
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

†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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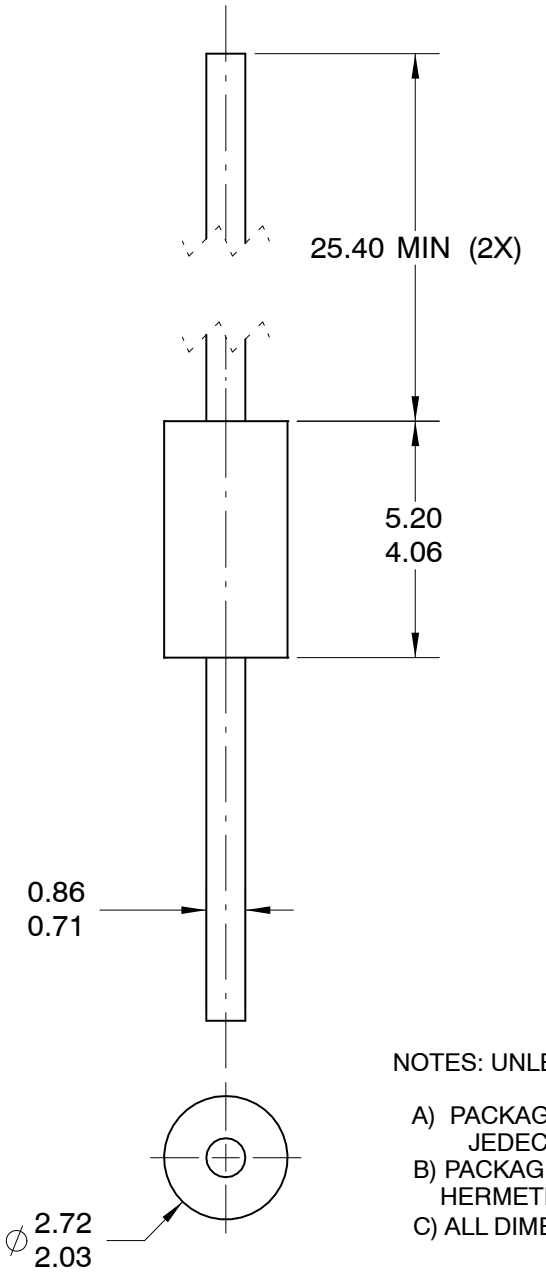

NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE:
JEDEC DO−204 VARIATION AL.
B) PACKAGE BODY CAN BE PLASTIC OR
HERMETICALLY SEALED GLASS.
C) ALL DIMENSIONS ARE IN MILLIMETERS.

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