# **Zener Diodes**

# **BZX79C2V4 - BZX79C18**

#### **ABSOLUTE MAXIMUM RATINGS** (Note 1)

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

Symbol	Parameter	Value	Unit
P <sub>D</sub>	Power Dissipation @ $T_L \le 75^{\circ}C$ , Lead Length = $3/8''$	500	mW
	Derate above 75°C	4.0	mW/°C
T <sub>J</sub> , T <sub>STG</sub>	Operating and Storage Temperature Range	-65 to +200	°C

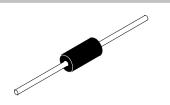
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

These ratings are limiting values above which the serviceability of the diode may be impaired.



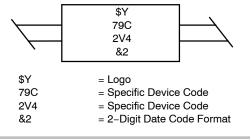
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AXIAL LEAD CASE 017AG

#### **MARKING DIAGRAM**



#### ORDERING INFORMATION

See detailed ordering and shipping information on page 3 of this data sheet.

### **BZX79C2V4 - BZX79C18**

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

	Zene	Zener Voltage (Note 2)		Z <sub>Z</sub> @ I <sub>Z</sub> (Ω) Leakage Current		Current	T <sub>C</sub> (mV/C)		C (pF)
Device	Min.	Max.	I <sub>Z</sub> (mA)	Max.	I <sub>R</sub> (μA)	V <sub>R</sub> (V)	Min.	Max.	V <sub>Z</sub> = 0, f = 1 MHz
BZX79C2V4	2.2	2.6	5	100	100	1	-3.5	0	255
BZX79C2V7	2.5	2.9	5	100	75	1	-3.5	0	230
BZX79C3V3	3.1	3.5	5	95	25	1	-3.5	0	200
BZX79C3V6	3.4	3.8	5	90	15	1	-3.5	0	185
BZX79C3V9	3.7	4.1	5	90	10	1	-3.5	+0.3	175
BZX79C4V3	4.0	4.6	5	90	5	1	-3.5	+1.0	160
BZX79C4V7	4.4	5	5	80	3	2	-3.5	+0.2	130
BZX79C5V1	4.8	5.4	5	60	2	2	-2.7	+1.2	110
BZX79C5V6	5.2	6	5	40	1	2	-2	+2.5	95
BZX79C6V2	5.8	6.6	5	10	3	4	0.4	3.7	90
BZX79C6V8	6.4	7.2	5	15	2	4	1.2	4.5	85
BZX79C7V5	7.0	7.9	5	15	1	5	2.5	5.3	80
BZX79C8V2	7.7	8.7	5	15	0.7	5	3.2	6.2	75
BZX79C9V1	8.5	9.6	5	15	0.5	6	3.8	7	70
BZX79C10	9.4	10.6	5	20	0.2	7	4.5	8	70
BZX79C11	10.4	11.6	5	20	0.1	8	5.4	9	65
BZX79C12	11.4	12.7	5	25	0.1	8	6	10	65
BZX79C13	12.4	14.1	5	30	0.1	8	7	11	60
BZX79C15	13.8	15.6	5	30	0.05	10.5	9.2	13	55
BZX79C16	15.3	17.1	5	40	0.05	11.2	10.4	14	52
BZX79C18	16.8	19.1	5	45	0.05	12.6	12.9	16	47
V <sub>F</sub> Forward Voltage = 1.2 V Max. @ I <sub>F</sub> = 200 mA									

<sup>2.</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
BZX79C2V4	LOGO	9C	2V4
BZX79C2V7			2V7
BZX79C3V3			3V3
BZX79C3V6			3V6
BZX79C3V9			3V9
BZX79C4V3			4V3
BZX79C4V7	]		4V7
BZX79C5V1	]		5V1
BZX79C5V6	]		5V6
BZX79C6V2	]		6V2
BZX79C6V8	]		6V8
BZX79C7V5	]		7V5
BZX79C8V2	]		8V2
BZX79C9V1			9V1

# **BZX79C2V4 - BZX79C18**

# MARKING INFORMATION (continued)

Device	Line 1	Line 2	Line 3
BZX79C10	LOGO	9C	10
BZX79C11			11
BZX79C12			12
BZX79C13			13
BZX79C15			15
BZX79C16			16
BZX79C18	1		18

### **ORDERING INFORMATION**

Part Number	Package	Shipping <sup>†</sup>	
BZX79C10	Axial Lead	5000 / Bulk Bag	
BZX79C10-T50A		5000 / Fan-Fold	
BZX79C11		5000 / Bulk Bag	
BZX79C11-T50A		5000 / Fan-Fold	
BZX79C12		5000 / Bulk Bag	
BZX79C12-T50A		5000 / Fan-Fold	
BZX79C13-T50A		5000 / Fan-Fold	
BZX79C15		5000 / Bulk Bag	
BZX79C15-T50A		5000 / Fan-Fold	
BZX79C15-T50R		5000 / Tape & Reel	
BZX79C16-T50A		5000 / Fan-Fold	
BZX79C18-T50A		5000 / Fan-Fold	
BZX79C2V4		5000 / Bulk Bag	
BZX79C2V4-T50A		5000 / Fan–Fold	
BZX79C2V7		5000 / Bulk Bag	
BZX79C2V7-T50A		5000 / Fan–Fold	
BZX79C3V3		5000 / Bulk Bag	
BZX79C3V3-T50A		5000 / Fan-Fold	
BZX79C3V6		5000 / Bulk Bag	
BZX79C3V6-T50A		5000 / Fan–Fold 5000 / Bulk Bag	
BZX79C3V9			
BZX79C3V9-T50A		5000 / Fan-Fold	
BZX79C4V3		5000 / Bulk Bag	
BZX79C4V3-T50A		5000 / Fan-Fold	
BZX79C4V7		5000 / Bulk Bag	
BZX79C4V7-T50A		5000 / Fan-Fold	
BZX79C5V1		5000 / Bulk Bag	
BZX79C5V1-T50A		5000 / Fan–Fold	
BZX79C5V6		5000 / Bulk Bag	
BZX79C5V6-T50A		5000 / Fan–Fold	
BZX79C5V6TR		5000 / Tape & Reel	
BZX79C6V2		5000 / Bulk Bag	

# **BZX79C2V4 - BZX79C18**

# **ORDERING INFORMATION** (continued)

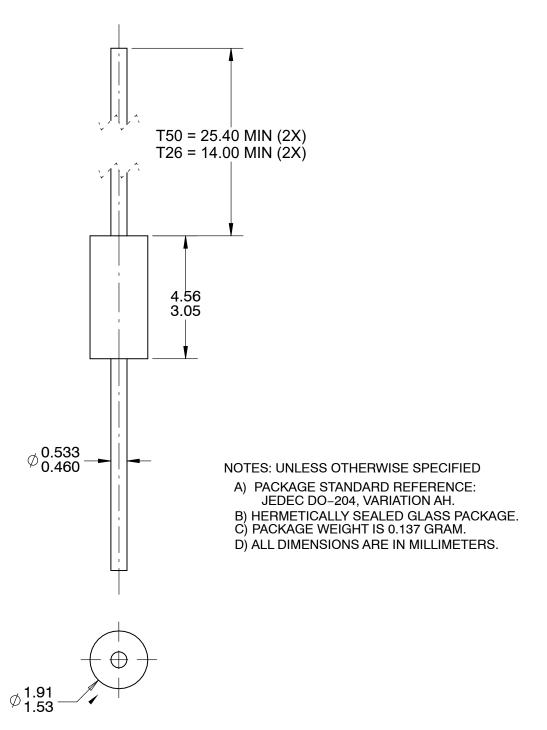
Part Number	Package	Shipping <sup>†</sup>
BZX79C6V2-T50A	Axial Lead	5000 / Fan-Fold
BZX79C6V2-T50R		5000 / Tape & Reel
BZX79C6V8		5000 / Bulk Bag
BZX79C6V8-T50A		5000 / Fan-Fold
BZX79C7V5-T50A		5000 / Fan-Fold
BZX79C8V2		5000 / Bulk Bag
BZX79C8V2-T50A		5000 / Fan-Fold
BZX79C9V1		5000 / Bulk Bag
BZX79C9V1-T50A		5000 / Fan-Fold

<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.



AXIAL LEAD CASE 017AG ISSUE O

**DATE 31 AUG 2016** 



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