

500 mW DO-35 Hermetically Sealed Glass Zener Voltage Regulators



Maximum Ratings (Note 1)

Rating	Symbol	Value	Units
Maximum Steady State Power Dissipation @TL≤75°C, Lead Length = 3/8"	P _D	500	mW
Derate Above 75°C		4.0	mW/°C
Operating and Storage Temperature Range	T _J , T _{stg}	-65 to +200	°C

Note 1: Some part number series have lower JEDEC registered ratings.



L = Logo
79Cxxx = BZX79CxxxDevice Code

Specification Features:

- Zener Voltage Range = 2.4V to 200V
- ESD Rating of Class 3 (>6 KV) per Human Body Model
- DO-35 Package (DO-204AH)
- Double Slug Type Construction
- Metallurgical Bonded Construction
- RoHS Compliant
- Solder Hot Dip Tin (Sn) Lead Finish

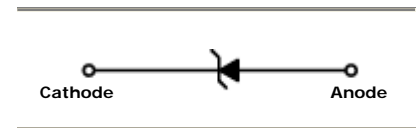
Specification Features:

Case : Double slug type, hermetically sealed glass

Finish : All external surfaces are corrosion resistant and leads are readily solderable

Polarity : Cathode indicated by polarity band

Mounting: Any



ELECTRICAL CHARACTERIZATION (T_A = 25°C unless otherwise noted)

Device (Note 2.)	Device Marking	Zener Voltage (Note 3.)			Zener Impedance (Note 4.)	Leakage Current		θ _{VR}		C V _Z = 0, F = 1.0MH _Z (pF)
		V _Z (Volts)		@I _{ZT}	Z _{ZT} @I _{ZT}	I _R @ V _R		(mV/°C)		
		Min	Max	(mA)	(Ω)	(uA Max)	(Volts)	Min	Max	
BZX79C110	79C110	104	116	1	650	0.1	84	63	131	26
BZX79C120	79C120	114	127	1	800	0.1	91	69	144	24
BZX79C130	79C130	124	141	1	950	0.1	99	75	158	23
BZX79C150	79C150	138	156	1	1250	0.1	114	87	185	21
BZX79C160	79C160	153	171	1	1400	0.1	122	93	200	20
BZX79C180	79C180	168	191	1	1700	0.1	137	105	228	18
BZX79C200	79C200	188	212	1	2000	0.1	152	120	255	17

V_F Forward Voltage =3.0V max @ I_F = 100mA for all types

2. TOLERANCE AND VOLTAGE DESIGNATION

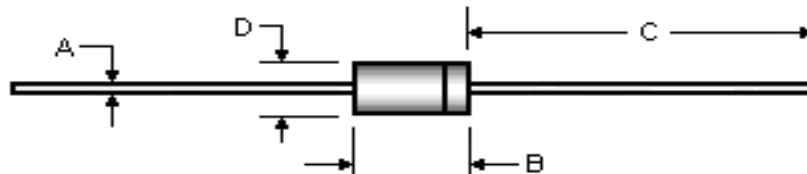
The type numbers listed have zener voltage min/max limits as shown.

3. REVERSE ZENER VOLTAGE (V_Z)

Reverse zener voltage is measured under pulse conditions such that T_J is no more than 2°C above T_A .

4. ZENER IMPEDANCE (Z_Z) DERIVATION

Z_{ZT} is measured by dividing the AC voltage drop across the device by the AC current applied. The specified limits are for $I_{Z(AC)} = 0.1 I_{Z(DC)}$ with AC frequency = 60Hz.

Package Outline
Case Outline


DIM	DO-35			
	Millimeters		Inches	
	Min	Max	Min	Max
A	0.46	0.56	0.018	0.022
B	3.05	5.08	0.120	0.200
C	25.40	38.10	1.000	1.500
D	1.52	2.29	0.060	0.090

Note: all dimensions are within JEDEC standard.

NOTICE

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