

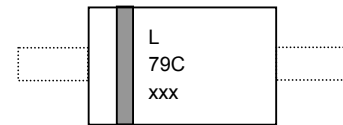
500 mW DO-35 Hermetically Sealed Glass Zener Voltage Regulators



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.



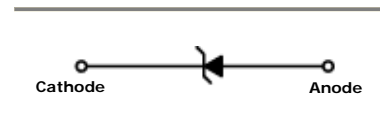
L = Logo
79Cxxx = BZX79CxxxDevice Code

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		θV _{BR}		C V _Z = 0, F = 1.0MHz (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

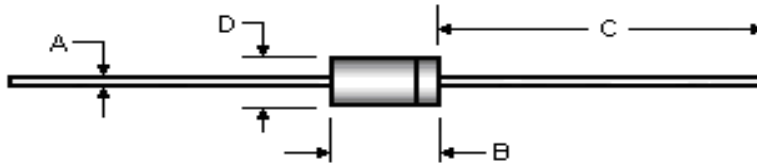
The type numbers listed have zener voltage min/max limits as shown.

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

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <http://www.takcheong.com>, or consult your nearest Tak Cheong's sales office for further assistance.