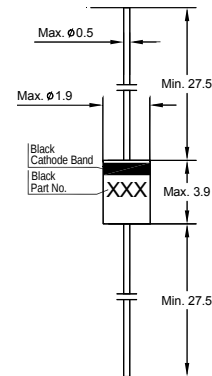


Features

Glass passivated
chip Low leakage
Built-in strain relief
Low inductance
High peak reverse power dissipation
Lead (Pb)-free component
For use in stabilizing and clipping circuits with
high power rating

Mechanical Data

Case: DO-35
Epoxy: UL 94V-0 rate flame retardant
Lead: Axial leads, Solderable per MIL-STD-202,
method 208 guaranteed
Polarity: Color band denotes cathode end
Mounting position: Any



Glass Case DO-35
Dimensions in mm

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 175	$^\circ\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

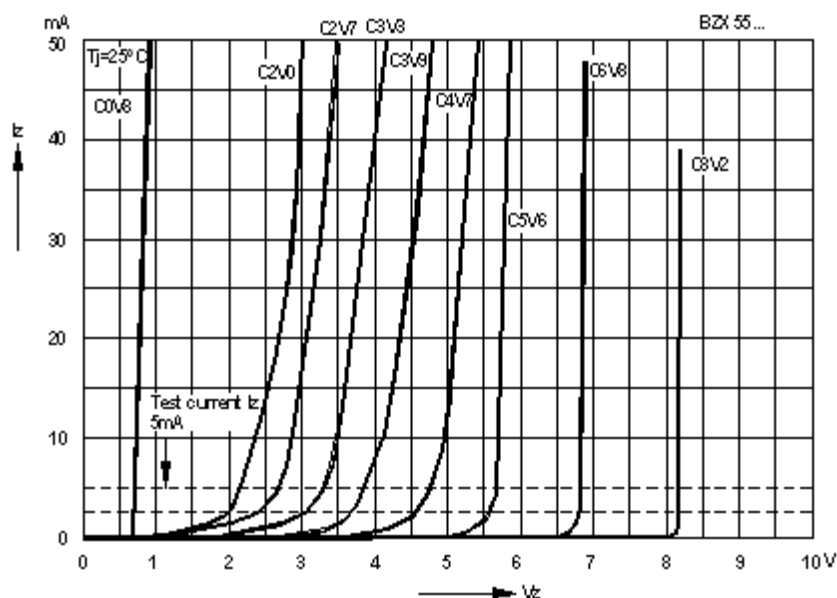
Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 100 \text{ mA}$	V_F	1	V

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

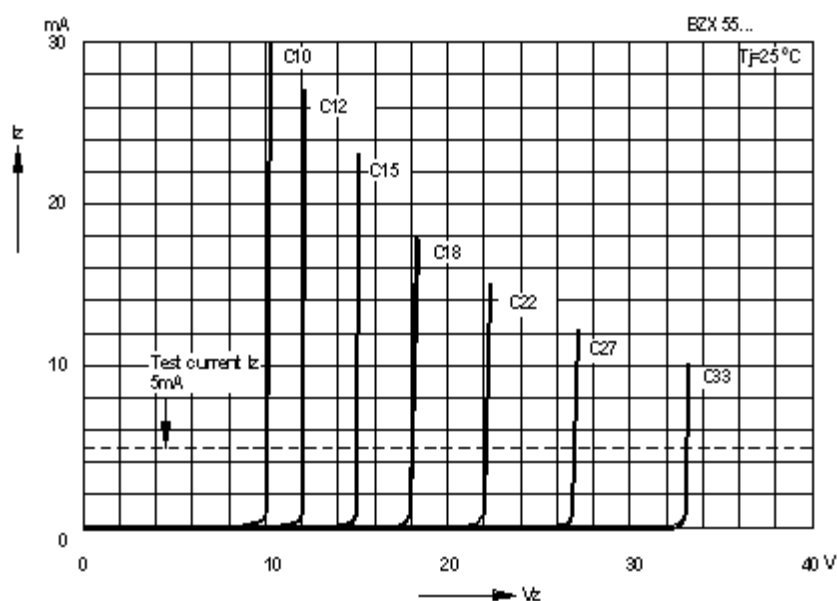
Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current			Temp. Coefficient of Zener Voltage
	$V_{Z\text{nom}}$	V_{ZT}	at I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	$T_a = 25^\circ\text{C}$	$T_a = 125^\circ\text{C}$	I_R at V_R	
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	Max. (μA)	(V)	
BZX55C5V1-CN	5.1	4.8...5.4	5	35	550	1	0.1	2	1	-0.02...+0.02

¹⁾ Tested with pulses $t_p = 20 \text{ ms}$.

Breakdown characteristics
 $T_J = \text{constant (pulsed)}$



Breakdown characteristics
 $T_J = \text{constant (pulsed)}$



NOTICE

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <https://www.chipnobo.com/en> or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <https://www.chipnobo.com/en>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。