

Features

Ideal for surface mount applications
Easy pick and place
High temperature soldering guaranteed:
260°C / 10 seconds at terminals

Voltage Range

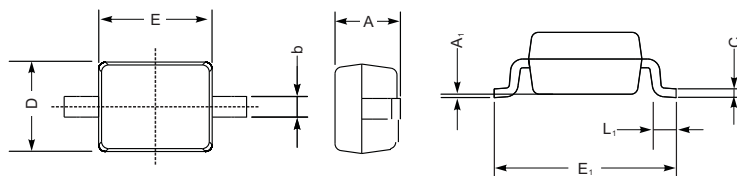
2.4 to 43 Volts

200mW

SOD323

Mechanical Data

Case: Molded plastic
Epoxy: UL 94V-0 rate flame retardant
Metallurgically bonded construction
Polarity: Color band denotes cathode end
Mounting position: Any



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

Maximum Ratings and Electrical Characteristics

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25°C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	625	°C/W
Forward Voltage at I _F = 10 mA	V _F	0.9	V

Fig.1 Power Derating Curve

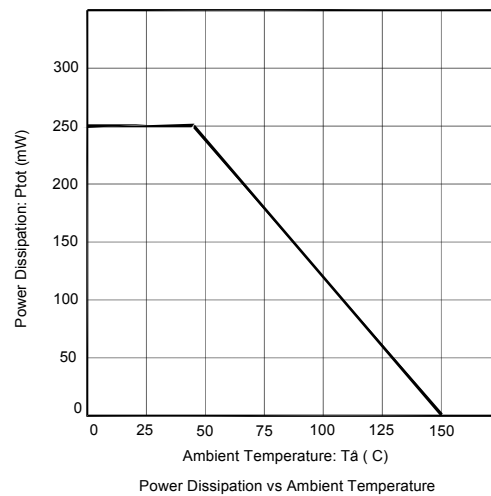
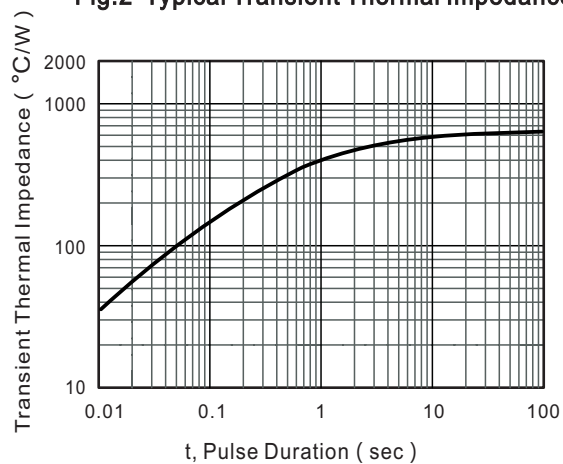


Fig.2 Typical Transient Thermal Impedance



Characteristics at $T_a = 25^\circ\text{C}$

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance				Reverse Leakage Current	
		V_{znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R
		V	V	mA	Max. (Ω)	mA	Max. (Ω)	mA	Max. (μA)	V
BZT52C5V6S	W9	5.6	5.2...6	5	40	5	400	1	1	2

NOTE: 1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm
2. Short duration test pulse used to minimize self-heating effect.
3. $f = 1\text{kHz}$.

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。