Features

- Bi-directional ESD protection of two lines
- Working voltage: 24V
- 220W Peak pulse Power (8/20us)
- Junction Capacitance: 10pF(Typ)
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±15kV contact ±15kV air
- IEC 61000-4-5 (Lightning) 4A (8/20μs)
- AEC-Q101 qualified

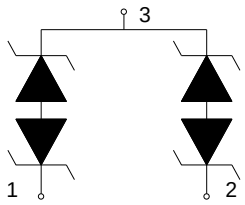
Applications

- Servers, notebooks, and desktop PCs
- Set-top box
- Communication systems

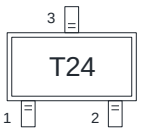
Mechanical Data

- Package:SOT-323
- Molding compound flammability rating: UL 94V-0
- RoHS/WEEE Compliant

Schematic & PIN Configuration



Ordering Information

Part Number	Package	Marking	Packing	Reel Size
ESDCAN02-2BWY-CN	SOT-323		3000 Tape & Reel	7 inches

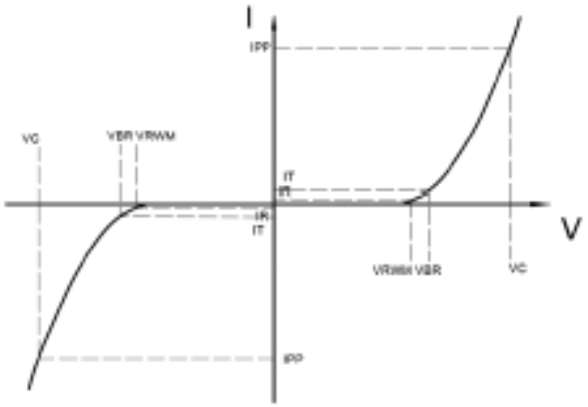
Absolute Maximum Rating(T_A=25°C unless otherwise Specified)

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25℃	Ppk	-	220	W
Peak pulse current (tp=8/20us)@25℃	IPP		4	A
ESD (IEC61000-4-2 air discharge) @25℃	VESD	-	Ñ15	kV
ESD (IEC61000-4-2 contact discharge) @25℃	VESD	-	Ñ15	kV
Junction temperature	T_J	-	150	℃
Operating temperature	TOP	-55	150	℃
Storage temperature	TSTG	-55	150	℃
Lead temperature	TL	-	260	℃

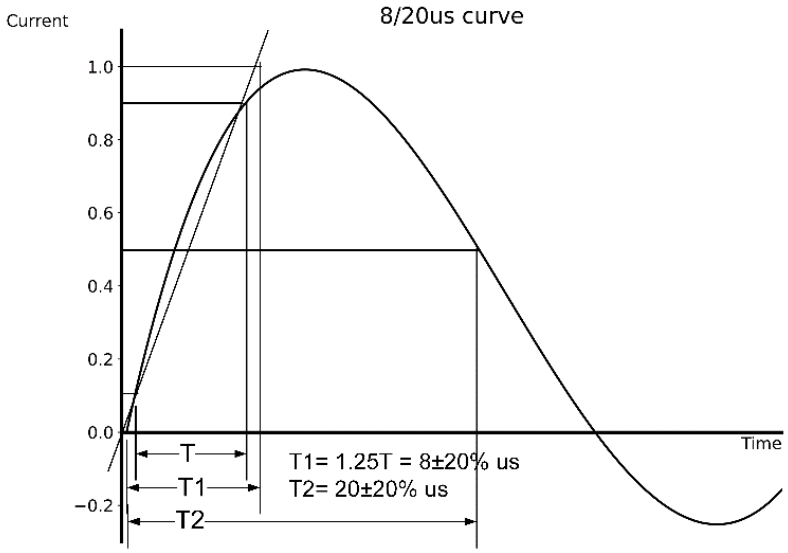
Electrical Characteristics(T_A=25°C unless otherwise Specified)

Parameter	**Symbol**	**Test Condition**	**Min**	**Typ**	**Max**	**Unit**
Reverse Working Voltage	VRWM				24	V
Breakdown Voltage	VBR	IT = 1mA	26			V
Reverse Leakage Current	IR	VRWM = 24V			1.0	uA
Holding Voltage	VC	IPP=1A; tp=8/20us;		35	38	V
Clamping Voltage	VC	IPP=4A;tp=8/20us;		45	48	V
Junction Capacitance	CJ	VR=0V; f=1MHz		10	15	pF

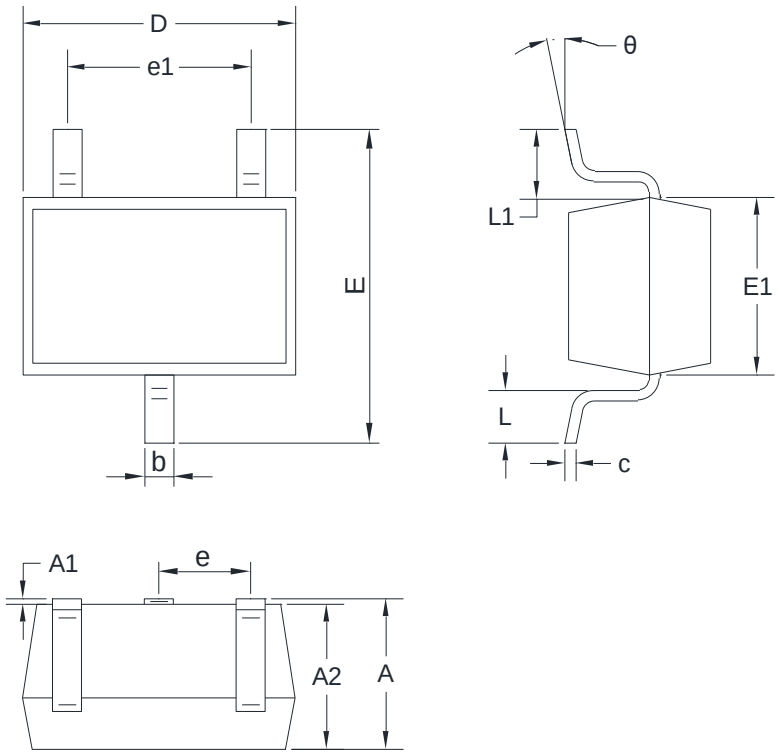
Symbol	Parameters
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}



Typical Characteristics(T_A=25°C unless otherwise Specified)



Outline Drawing – SOT-323



Symbol	Millimeters		Symbol	Millimeters	
	Min	Max		Min	Max
A	0.90	1.10	E1	1.15	1.35
A1	0.00	0.10	e	0.65 TYP	
A2	0.90	1.00	e1	1.20	1.40
b	0.20	0.40	L	0.26	0.46
c	0.08	0.15	L1	0.525 REF	
D	2.00	2.20	θ	0°	8°
E	2.15	2.45			

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 http://www.chipnobo.com, 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 http://www.chipnobo.com，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。