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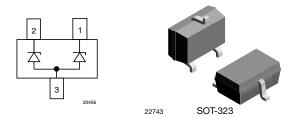
RoHS

COMPLIANT

HALOGEN

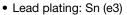
FREE GREEN

Dual-Line ESD-Protection Diode Array in SOT-323



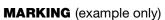
FEATURES

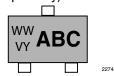
- Compact SOT-323 package
- 2-line unidirectional ESD-protection
- AEC-Q101 qualified available
- Working range 1 V to 33 V
- ESD immunity acc. IEC 61000-4-2 ±15 kV to ±30 kV contact discharge ±15 kV to ±30 kV air discharge



- soldering can be checked by standard vision inspection
- AOI = Automated Optical Inspection

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912





ABC = type code (see table below) WW = date code working week VY = date code year

DESIGN SUPPORT TOOLS AVAILABLE



ORDERING INFORMATION					
		ENVIRONMENTAL AND QUALITY CODE		LITY CODE	
PART NUMBER (EXAMPLE)	AEC-Q101 QUALIFIED	RoHS COMPLIANT + LEAD (Pb)-FREE TERMINATIONS	TIN PLATED	8K PER 7" REEL (8 mm TAPE)	ORDERING CODE (EXAMPLE)
		GREEN		MOQ = 8K/BOX	
VESD05A2-03G	-	G	3	-08	VESD05A2-03G-G3-08
VESD05A2-03G	Н	G	3	-08	VESD05A2-03GHG3-08

PACKAGE DATA							
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS	
VESD01A2-03G-G3	SOT-323	D01					
VESD03A2-03G-G3	SOT-323	D03					
VESD05A2-03G-G3	SOT-323	D05					
VESD08A2-03G-G3	SOT-323	D08	5 0 ma	UL 94 V-0	MSL level 1	Peak temperature max. 260 °C	
VESD12A2-03G-G3	SOT-323	D12	5.2 mg	(according J-STD-020)	Peak temperature max. 200 G		
VESD16A2-03G-G3	SOT-323	D16					
VESD26A2-03G-G3	SOT-323	D26					
VESD33A2-03G-G3	SOT-323	D33					

Rev. 1.1, 13-Feb-2020 **1** Document Number: 86150 For technical questions, contact: <u>ESDprotection@vishay.com</u>



ABSOLUTE MAXIMUM RATINGS VESD01A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	14.6	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	30	kV		
ESD Infinitrity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	30	kV		
Operating temperature	Junction temperature	T _J	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS VESD03A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS	TEST CONDITIONS SYMBOL VALUE UNIT					
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	11.6	Α			
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W			
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	30	kV			
E3D IIIIIIIIIIII	Air discharge acc. IEC 61000-4-2; 10 pulses	V _{ESD}	30	kV			
Operating temperature	Junction temperature	TJ	-55 to +150	°C			
Storage temperature		T _{stg}	-55 to +150	°C			

ABSOLUTE MAXIMUM RATINGS VESD05A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	8.7	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 µs/single shot	P _{PP}	100	W		
CCD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	\/	30	kV		
ESD immunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	30	kV		
Operating temperature	Junction temperature	TJ	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS VESD08A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)					
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT	
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	6.60	Α	
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W	
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	30	kV	
ESD Inimunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	30	kV	
Operating temperature	Junction temperature	TJ	-55 to +150	°C	
Storage temperature		T _{stg}	-55 to +150	°C	



ABSOLUTE MAXIMUM RATINGS VESD12A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	4.4	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	W	30	kV		
ESD Infinitrity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	30	kV		
Operating temperature	Junction temperature	TJ	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS VESD16A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT		
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	3.6	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W		
CCD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	V	30	kV		
ESD immunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V _{ESD}	30	kV		
Operating temperature	Junction temperature	TJ	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS VESD26A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER TEST CONDITIONS SYMBOL VALUE UNIT						
Peak pulse current	Acc. IEC 61000-4-5, 8/20 μs/single shot	I _{PPM}	2.1	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 μs/single shot	P _{PP}	100	W		
ECD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	W	20	kV		
ESD immunity	Air discharge acc. IEC 61000-4-2; 10 pulses	V_{ESD}	20	kV		
Operating temperature	Junction temperature	TJ	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		

ABSOLUTE MAXIMUM RATINGS VESD33A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)						
PARAMETER TEST CONDITIONS SYMBOL VALUE UNIT						
Peak pulse current	Acc. IEC 61000-4-5, 8/20 µs/single shot	I _{PPM}	1.6	Α		
Peak pulse power	Acc. IEC 61000-4-5, 8/20 µs/single shot	P _{PP}	100	W		
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses	W	15	kV		
E3D IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Air discharge acc. IEC 61000-4-2; 10 pulses	V _{ESD}	15	kV		
Operating temperature	Junction temperature	T _J	-55 to +150	°C		
Storage temperature		T _{stg}	-55 to +150	°C		



ELECTRICAL CHARACTERISTICS VESD01A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V _{RWM}	-	-	1	V	
Reverse voltage	at I _R = 100 μA	V_R	1	1.2	-	V	
Reverse current	at V _R = 1 V	I _R	-	20	100	μΑ	
Reverse breakdown voltage	at I _R = 20 mA	V_{BR}	2.5	2.65	2.8	V	
Reverse clamping voltage	at $I_{PP} = I_{PPM} = 14.6 \text{ A}, t_p = 8/20 \mu \text{s}$	V _C	-	6.2	6.9	V	
Converd elemning velters	at $I_{PP} = 1 \text{ A}$, $t_p = 300 \mu\text{s}$	V _F	0.9	1.1	1.2	V	
Forward clamping voltage	at I _{PP} = I _{PPM} = 14.6 A, t _p = 8/20 μs	V _F	-	3	3.92	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.13	-	Ω	
Canacitance	at $V_D = 0$ V· f = 1 MHz	Cp	153	192	230	рF	

ELECTRICAL CHARACTERISTICS VESD03A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	3	V	
Reverse voltage	at I _R = 20 μA	V_R	3	-	-	V	
Reverse current	at V _R = 3 V	I _R	-	8	20	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	4.4	4.65	4.9	V	
Reverse clamping voltage	at I _{PP} = I _{PPM} = 11.6 A, t _p = 8/20 μs	V _C	-	7.8	8.70	V	
Forward elemping voltage	at $I_{PP} = 1 \text{ A}, t_p = 300 \mu \text{s}$	V_{F}	0.9	1.1	1.2	V	
Forward clamping voltage	at $I_{PP} = I_{PPM} = 11.6 \text{ A}, t_p = 8/20 \mu \text{s}$	V_{F}	-	2.6	3.32	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.19	-	Ω	
Capacitance	at $V_R = 0 V$; $f = 1 MHz$	C _D	89	112	135	pF	

ELECTRICAL CHARACTERISTICS VESD05A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	ı	-	5	V	
Reverse voltage	at I _R = 1 μA	V_R	5	-	-	V	
Reverse current	at V _R = 5 V	I _R	-	0.01	0.1	μA	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	6.85	7.26	7.65	V	
Reverse clamping voltage	at $I_{PP} = I_{PPM} = 8.7 \text{ A}, t_p = 8/20 \ \mu\text{s}$	V_{C}	-	10.3	11.5	V	
Famus ed alamaina valtaga	at $I_{PP} = 1 \text{ A}$, $t_p = 300 \mu\text{s}$	V_{F}	0.9	1.1	1.2	V	
Forward clamping voltage	at $I_{PP} = I_{PPM} = 8.7 \text{ A}, t_p = 8/20 \ \mu\text{s}$	V_{F}	-	2.2	2.74	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.2	-	Ω	
Capacitance	at V _R = 0 V; f = 1 MHz	C _D	53	67	81	pF	



ELECTRICAL CHARACTERISTICS VESD08A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	8	V	
Reverse voltage	at I _R = 0.1 μA	V_R	8	-	-	V	
Reverse current	at V _R = 8 V	I _R	-	0.01	0.1	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	9.5	10	10.5	V	
Reverse clamping voltage	at I _{PP} = I _{PPM} = 6.6 A, t _p = 8/20 μs	V _C	-	13.7	15.3	V	
Converd elemping veltage	at I _{PP} = 1 A, t _p = 300 μs	V _F	0.9	1.1	1.2	V	
Forward clamping voltage	at I _{PP} = I _{PPM} = 6.6 A, t _p = 8/20 μs	V _F	-	1.9	2.32	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.23	-	Ω	
Capacitance	at V _R = 0 V; f = 1 MHz	C_{D}	37	47	57	pF	

ELECTRICAL CHARACTERISTICS VESD12A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	12	V	
Reverse voltage	at $I_R = 0.1 \mu A$	V_R	12	-	-	V	
Reverse current	at V _R = 12 V	I _R	-	0.01	0.1	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	13.9	14.7	15.5	V	
Reverse clamping voltage	at I _{PP} = I _{PPM} = 4.4 A, t _p = 8/20 μs	V _C	-	20.5	22.7	V	
Converd elemping veltage	at I _{PP} = 1 A, t _p = 300 μs	V _F	0.9	1.1	1.2	V	
Forward clamping voltage	at I _{PP} = I _{PPM} = 4.4 A, t _p = 8/20 μs	V _F	-	1.6	1.88	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.4		Ω	
Capacitance	at V _R = 0 V; f = 1 MHz	C _D	26	33	40	pF	

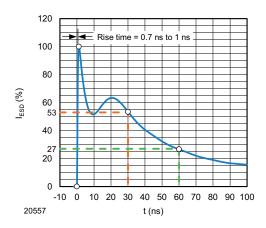
ELECTRICAL CHARACTERISTICS VESD16A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	16	V	
Reverse voltage	at I _R = 0.1 μA	V_R	16	-	-	V	
Reverse current	at V _R = 16 V	I _R	-	0.01	0.1	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	17	17.9	18.8	V	
Reverse clamping voltage	at $I_{PP} = I_{PPM} = 3.6 \text{ A}, t_p = 8/20 \mu \text{s}$	V _C	-	25.3	28	V	
Converd elemaning veltage	at $I_{PP} = 1 \text{ A}$, $t_p = 300 \mu\text{s}$	V_{F}	0.9	1.1	1.2	V	
Forward clamping voltage	at $I_{PP} = I_{PPM} = 3.6 \text{ A}, t_p = 8/20 \mu s$	V_{F}	-	1.5	1.72	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	0.53	-	Ω	
Capacitance	at V _R = 0 V; f = 1 MHz	C _D	21	27	33	pF	



ELECTRICAL CHARACTERISTICS VESD26A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	26	V	
Reverse voltage	at I _R = 0.1 μA	V_R	26	-	-	V	
Reverse current	at V _R = 26 V	I _R	-	< 0.01	0.1	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	27.6	29.1	30.6	V	
Reverse clamping voltage	at $I_{PP} = I_{PPM} = 2.1 \text{ A}$, $t_p = 8/20 \mu \text{s}$	V _C	-	43	48	V	
Forward clamping voltage	at I _{PP} = 1 A, t _p = 300 μs	V _F	0.9	1.1	1.2	V	
	at I _{PP} = I _{PPM} = 2.1 A, t _p = 8/20 μs	V_{F}	-	1.3	1.42	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	1.9	-	Ω	
Capacitance	at $V_B = 0$ V; $f = 1$ MHz	CD	14	17.5	21	pF	

ELECTRICAL CHARACTERISTICS VESD33A2-03G (T _{amb} = 25 °C, between pin 1 - 3 or 2 - 3, unless otherwise specified)							
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines	
Reverse stand off voltage	Max. reverse working voltage	V_{RWM}	-	-	33	V	
Reverse voltage	at $I_R = 0.1 \mu A$	V_R	33	-	-	V	
Reverse current	at V _R = 33 V	I _R	-	< 0.01	0.1	μΑ	
Reverse breakdown voltage	at I _R = 1 mA	V_{BR}	35.5	37.4	39.3	V	
Reverse clamping voltage	at I _{PP} = I _{PPM} = 1.6 A, t _p = 8/20 μs	V _C	-	56	62.5	V	
Forward alamaina valtaga	at $I_{PP} = 1 \text{ A}$, $t_p = 300 \mu\text{s}$	V_{F}	0.9	1.1	1.2	V	
Forward clamping voltage	at $I_{PP} = I_{PPM} = 1.6 \text{ A}, t_p = 8/20 \mu \text{s}$	V_{F}	-	1.22	1.32	V	
Dynamic resistance	t _p = 100 ns (TLP; reverse direction)	r _{dyn}	-	3.6	-	Ω	
Capacitance	at V _R = 0 V; f = 1 MHz	C _D	12	15	18	pF	

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Fig. 1 - ESD Discharge Current Wave Form acc. IEC 61000-4-2 (330 Ω / 150 pF)

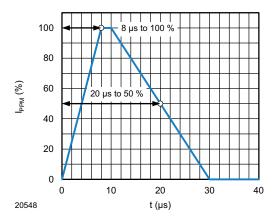


Fig. 2 - 8/20 µs Peak Pulse Current Wave Form acc. IEC 61000-4-5

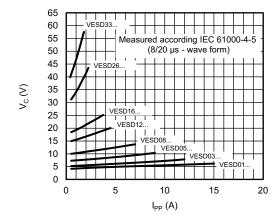


Fig. 3 - Typical Peak Clamping Voltage vs. Peak Pulse Current

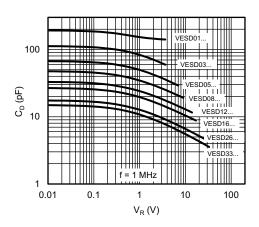


Fig. 4 - Typical Capacitance vs. Reverse Voltage

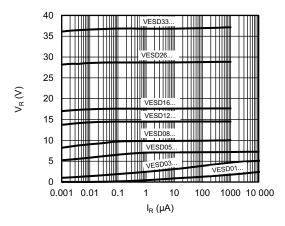


Fig. 5 - Typical Reverse Voltage vs. Reverse Current

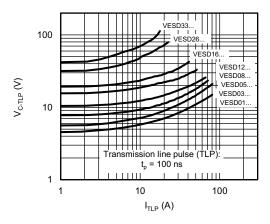


Fig. 6 - Typical Clamping Voltage vs. Peak Pulse Current



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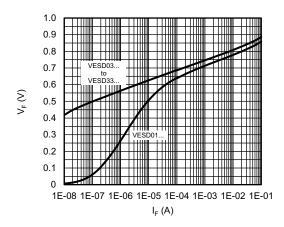


Fig. 7 - Typical Forward Voltage vs. Forward Current

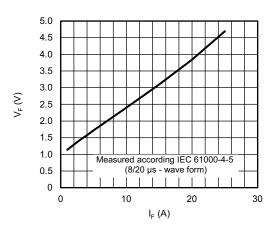
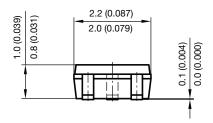
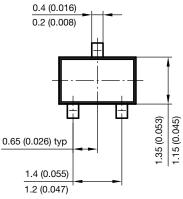


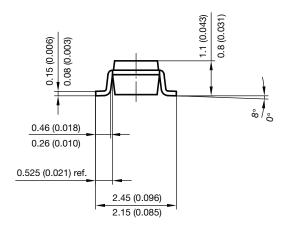
Fig. 8 - Typical Forward Voltage vs. Forward Current

PACKAGE DIMENSIONS in millimeters (inches): SOT-323

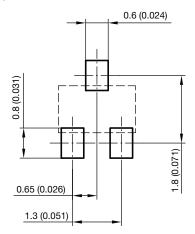




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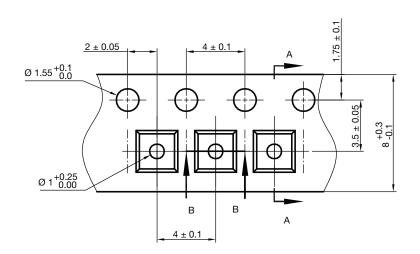
foot print recommendation:

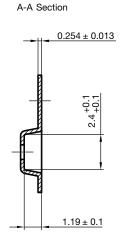




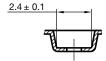
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CARRIER TAPE SOT-323



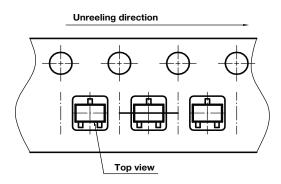


B-B Section



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ORIENTATION IN CARRIER TAPE SOT-323



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22761



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