

Ordering Information

Part Number	Ambient Temperature Range	Package	Environmental
AOZ8236DI-05	-40°C to +85°C	DFN 1.6x1.6_6L	Green Product RoHS Compliant



AOS Green Products use reduced levels of Halogens, and are also RoHS compliant.

Please visit www.aosmd.com/media/AOSGreenPolicy.pdf for additional information.

Absolute Maximum Ratings

Exceeding the Absolute Maximum ratings may damage the device.

Parameter	Rating
Peak Pulse Current (I_{PP}), $t_P = 8/20\mu s$	8A
Storage Temperature (T_S)	-65°C to +150°C
ESD Rating per IEC61000-4-2, Contact ⁽¹⁾	±30kV
ESD Rating per IEC61000-4-2, Air ⁽¹⁾	±30kV
ESD Rating per Human Body Model ⁽²⁾	±30kV

Notes:

1. IEC 61000-4-2 discharge with $C_{Discharge} = 150pF$, $R_{Discharge} = 330\Omega$.

2. Human Body Discharge per MIL-STD-883, Method 3015 $C_{Discharge} = 100pF$, $R_{Discharge} = 1.5k\Omega$.

Maximum Operating Ratings

Parameter	Rating
Junction Temperature (T_J)	-40°C to +125°C

Electrical Characteristics

$T_A = 25^\circ C$ unless otherwise specified.

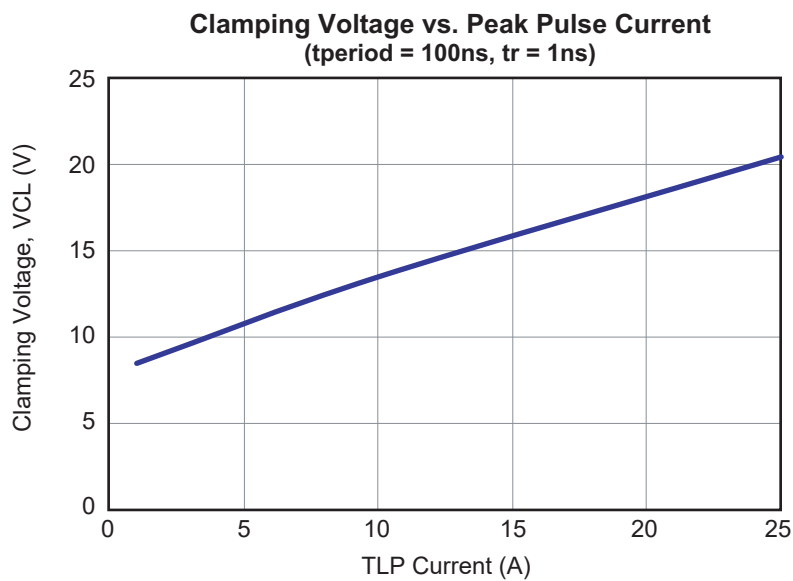
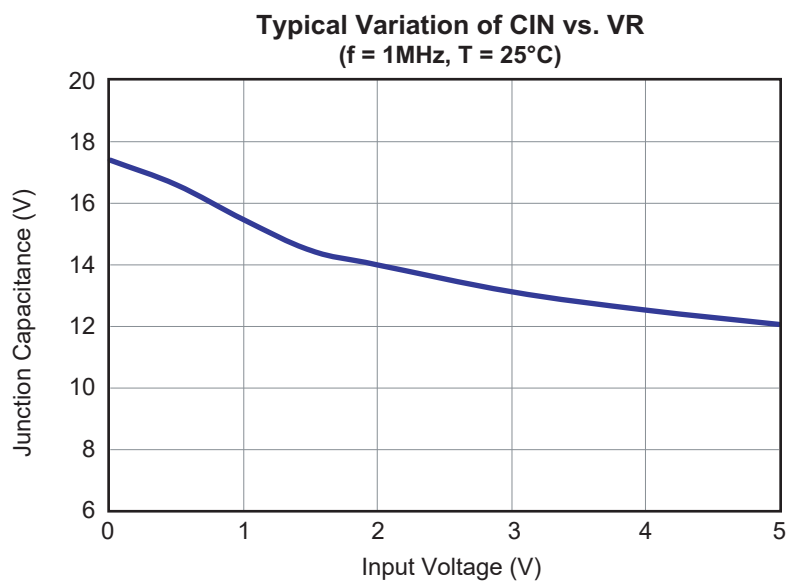
Symbol	Parameter	Diagram
I_{PP}	Maximum Reverse Peak Pulse Current	
V_{CL}	Clamping Voltage @ I_{PP} (IEC61000-4-5 8/20 μs pulse)	
V_{RWM}	Working Peak Reverse Voltage	
I_R	Maximum Reverse Leakage Current	
V_{BR}	Breakdown Voltage	
I_T	Test Current	
P_{pk}	Peak Power Dissipation (IEC61000-4-5 8/20 μs pulse)	
C_J	Capacitance @ $V_R = 0$ and $f = 1$ MHz	

Device	Device Marking	V_{RWM} (V) Max.	V_{BR} (V) Min.	I_R (μA) Max.	I_{PP} (A)	V_{CL} @ I_{PP} 8/20 μs ⁽³⁾		C_J (pF) Max.	
						Typ.	Max.	Typ.	Max.
AOZ8236DI-05	H	5	6	0.1	8	13.5	16	17.5	19

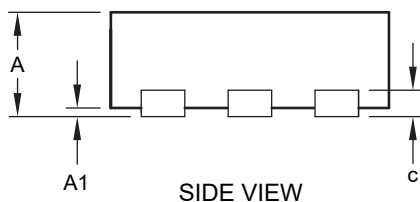
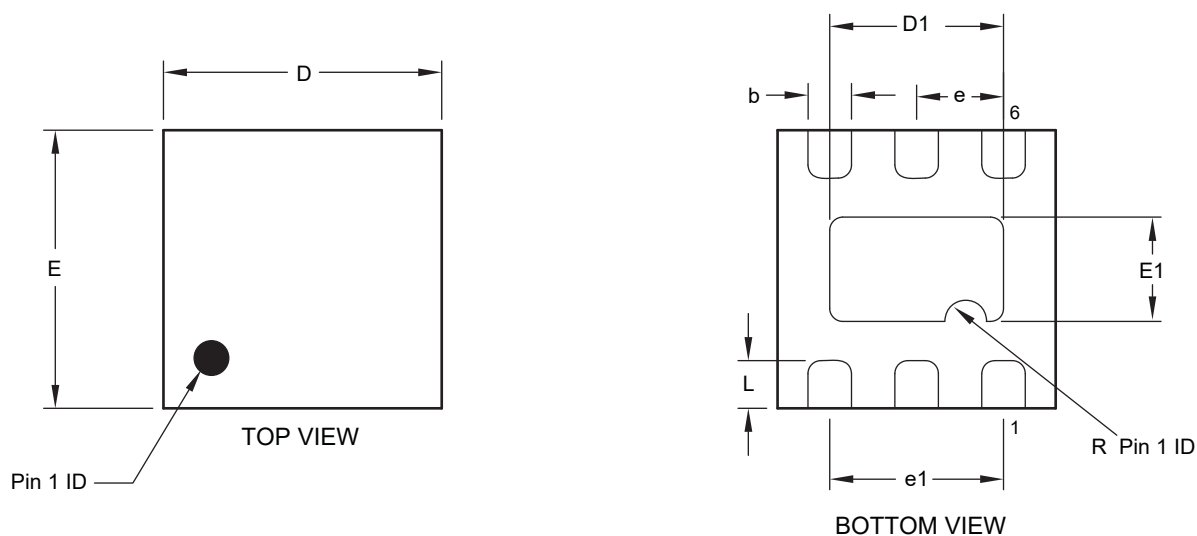
Notes:

3. These specifications are guaranteed by design and characterization.

Typical Performance Characteristics



Package Dimensions, DFN 1.6mm x 1.6mm



Dimensions in millimeters

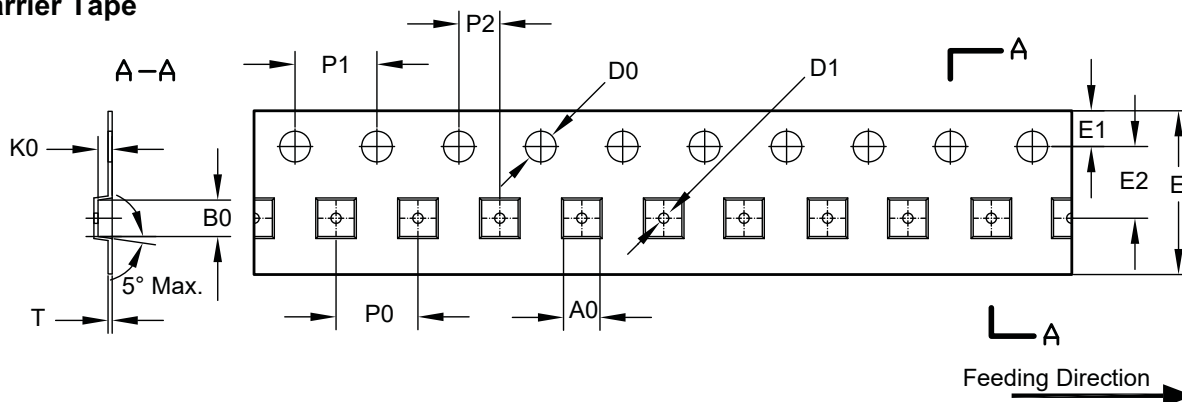
Symbols	Min.	Nom.	Max.
A	0.50	0.55	0.60
A1	0.00	0.02	0.05
b	0.22	0.25	0.28
c	0.152 REF.		
D	1.55	1.60	1.65
D1	0.95	1.00	1.05
E	1.55	1.60	1.65
E1	0.55	0.60	0.65
e	0.50 BSC		
e1	1.0 REF		
L	0.225	0.275	0.325
R	0.20		

Notes:

1. Dimensions and tolerancing conform to ASME Y14.5M-1994.
2. All dimensions are in millimeters.

Tape and Reel Dimensions, DFN 1.6mm x 1.6mm

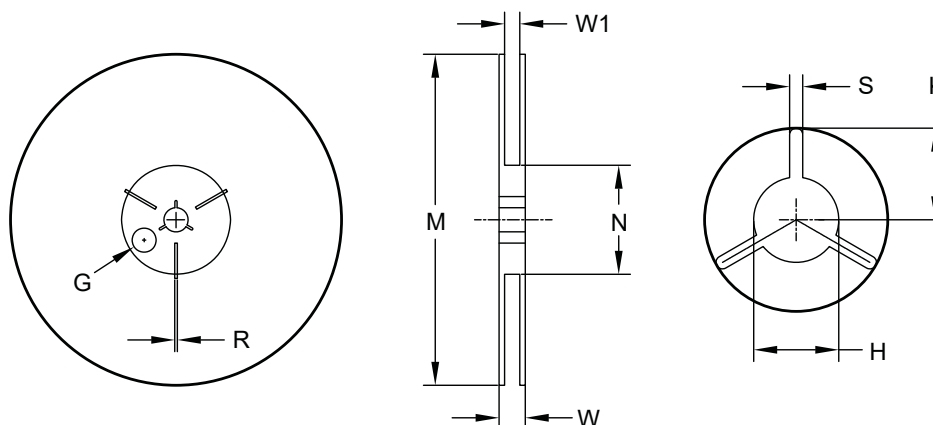
Carrier Tape



UNIT: mm

Package	A0	B0	K0	D0	D1	E	E1	E2	P0	P1	P2	T
DFN 1.6x1.6	1.78 ±0.05	1.78 ±0.05	0.69 ±0.05	ø1.50 ±0.10	ø0.50 ±0.05	8.00 +0.30 / -0.10	1.75 ±0.10	3.50 ±0.05	4.00 ±0.10	4.00 ±0.10	2.00 ±0.05	0.20 ±0.02

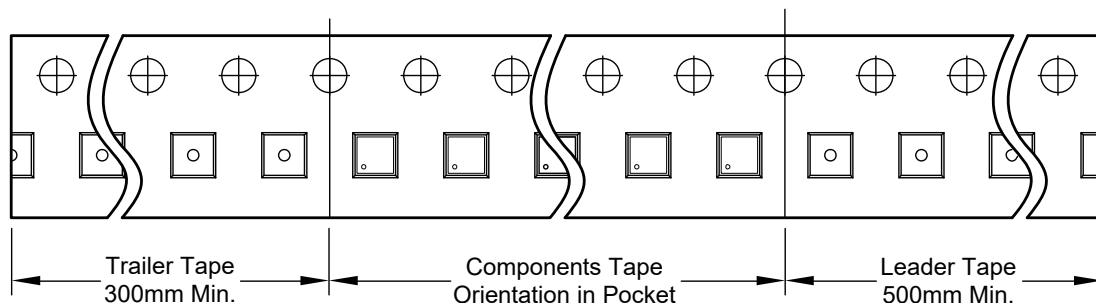
Reel



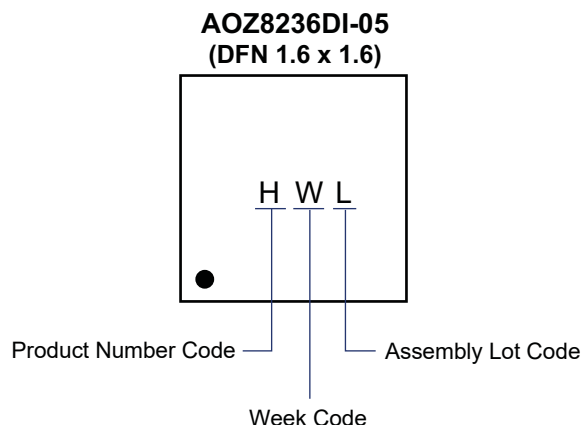
UNIT: mm

Tape Size	Reel Size	M	N	W	W1	H	S	K	E	R
8mm	ø178	ø178.0 ±1.0	ø60.0 ±1.0	11.80 ±0.5	9.0 ±0.5	ø13.0 +0.5 / -0.2	2.40 ±0.10	10.25 ±0.2	ø9.8	—

Leader / Trailer & Orientation



Package Marking



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http://www.aosmd.com/terms_and_conditions_of_sale

LIFE SUPPORT POLICY

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As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
2. A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.