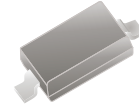


AGBLC03C-HF Thru. AGBLC24C-HF

RoHS Device
Halogen Free

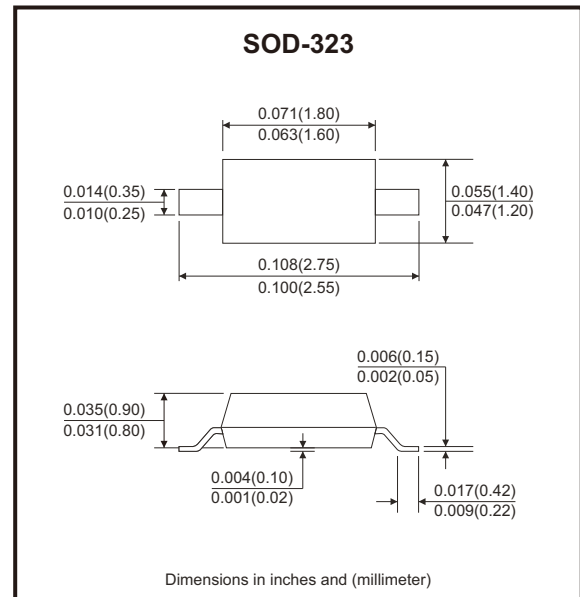


Features

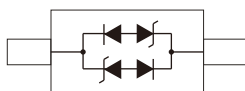
- Unidirectional & bidirectional configurations.
- Protects one power or I/O port.
- ESD protection > 30kV
- Low clamping voltage.
- AEC-Q101 Qualified.

Mechanical data

- Case: SOD-323, molded plastic.
- Molding compound: UL flammability classification rating 94V-0.
- Terminals: Matte tin-plated leads, solderability per MIL-STD-202, method 208.
- Mounting position: Any.



Circuit Diagram



Maximum Rating (at T_c=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation (t _p = 8/20μs)	P _{PP}	See next table	W
Peak pulse current (t _p = 8/20μs)	I _{PP}	See next table	A
ESD capability IEC 61000-4-2(air) IEC 61000-4-2(contact)	ESD	±30	kV
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (at $T_c=25^\circ\text{C}$ unless otherwise noted)

Part No.	Rated stand-off voltage	Min. breakdown voltage @ $I_r = 1\text{mA}$	Max. clamping voltage @ $I_{PP} = 1\text{A}$	Max. clamping voltage		Peak pulse current	Max. leakage current @ V_{RWM}	Typ. capacitance @ $V_R=0\text{V}, 1\text{MHz}$
	V_{RWM} (V)	V_{BR} (V)	V_C (V)	V_C (V)	I_{PP} (A)	P_{PP} (W)	I_R (μA)	C_J (pF)
AGBLC03C-HF	3.3	4.0	7.0	19	20	380	5	1
AGBLC05C-HF	5.0	6.0	9.8	18.3	17	311	5	1
AGBLC08C-HF	8.0	8.5	13.4	18.5	15	278	2	1
AGBLC12C-HF	12	13.3	19	28.6	11	315	1	1
AGBLC15C-HF	15	16.7	24	31.8	10	318	1	1
AGBLC18C-HF	18	20.0	29	45	8	360	1	1
AGBLC24C-HF	24	26.7	43	56	6	336	1	1

Typical Rating and Characteristic Curves (AGBLCxxC-HF Series)

Fig.1 - 8/20 μs Waveform per IEC 61000-4-5

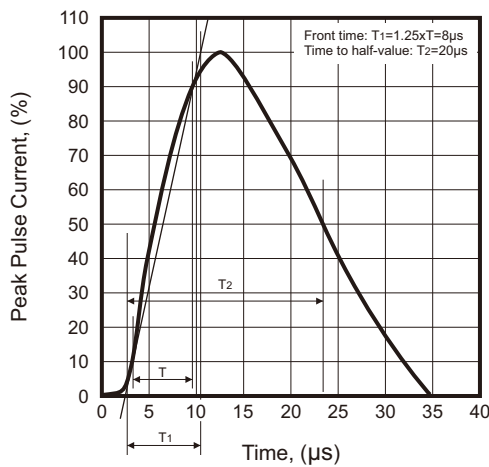
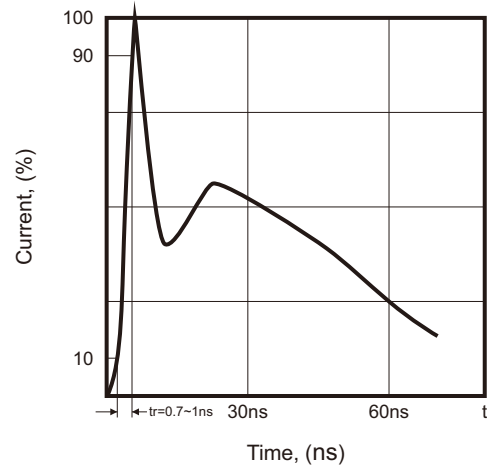
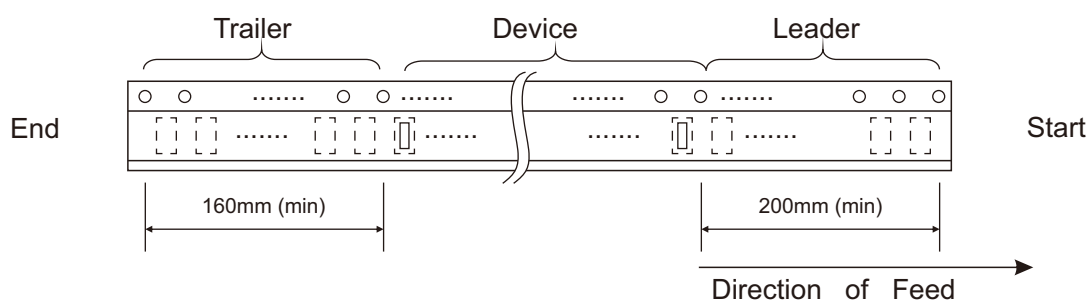
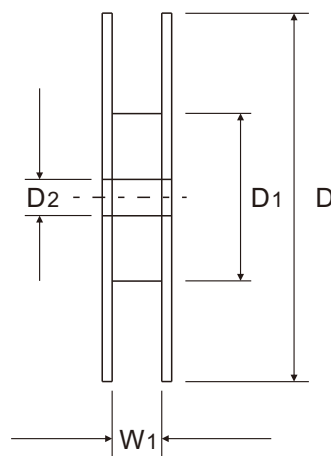
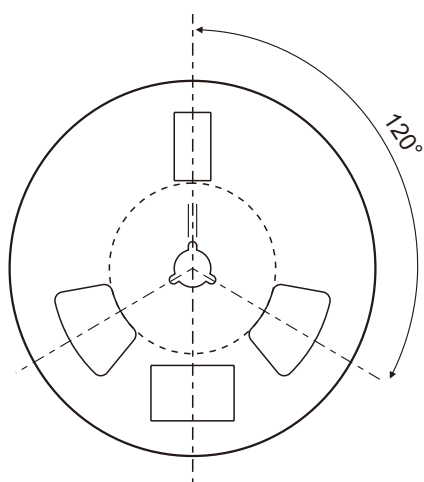


Fig.2 - ESD Pulse Waveform According to IEC 61000-4-2



Technical drawing of a mechanical part with dimensions P_0 , P_1 , d , E , F , W , P , A , B , C , and T . The drawing includes a top view and a side view. The top view shows a rectangular part with four circular features. The side view shows a cross-section of the part with a flange of thickness T and a central hole of diameter d . The dimensions are defined as follows: P_0 is the distance between the first two circular features; P_1 is the distance between the second and third circular features; d is the diameter of the central hole; E is the distance from the top surface to the center of the hole; F is the distance from the bottom surface to the center of the hole; W is the total width of the part; P is the distance between the first and third circular features; A is the distance between the second and fourth circular features; B is the distance from the top surface to the center of the hole; C is the distance from the bottom surface to the center of the hole; and T is the thickness of the flange.



SOD-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.46 ± 0.05	3.30 ± 0.05	1.25 ± 0.05	1.50 + 0.10	178.00 ± 1.00	54.00 ± 0.50	13.00 ± 0.50
	(inch)	0.057 ± 0.002	0.130 ± 0.002	0.049 ± 0.002	0.059 + 0.004	7.008 ± 0.039	2.126 ± 0.020	0.512 ± 0.020

SOD-323	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.25 ± 0.02	8.00 + 0.30 - 0.10	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.001	0.315 + 0.012 - 0.004	0.374 ± 0.039

Marking Code

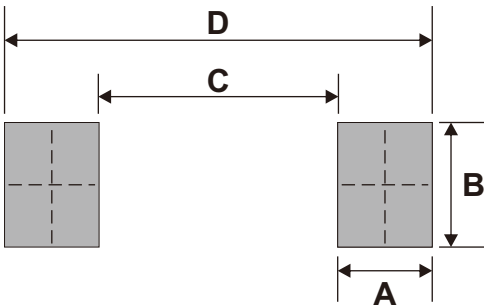
Part Number	Marking Code
AGBLC03C-HF	3C
AGBLC05C-HF	5C
AGBLC08C-HF	8C
AGBLC12C-HF	2C
AGBLC15C-HF	6C
AGBLC18C-HF	1C
AGBLC24C-HF	4C



XX = Product type marking code

Suggested P.C.B. PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	0.63	0.025
B	0.83	0.033
C	1.60	0.063
D	2.85	0.112



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323	3,000	7