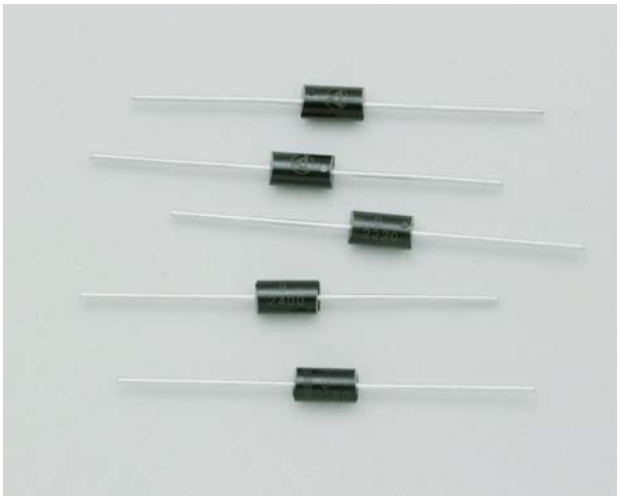
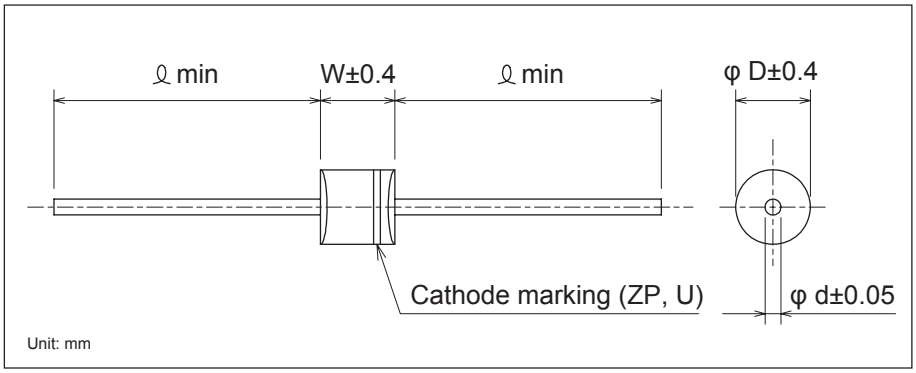
The Silicon Surge Absorber is available in five series that support the countermeasure against a wide range of surge from low to high, including electrostatic discharges and lightning surges. The device may also be used as a constant voltage device where high voltage or high power is required.



Series	Unidirectional	Dual-directional	Maximum permissible power	
			8/20μs	10/100μs
1000	ZP	CP	6,000 W	500 W
1500	ZP	CP	15,000W	1,300W
2000	U	B	18,000W	1,500W
3000	U	B	34,000W	3,500W
5000	U	B	44,000W	5000W

● *Dimensions*



Dimensions (mm)				
Series	D	W	d	ℓ
1000	2.8	5.0	0.6	20
1500	5.3	9.7	1.0	
2000				
3000	8.5	8.6		
5000	9.7	12.3	1.2	

Electrical Specifications

1000 Series

Maximum peak pulse power 6,000W (8/20μsec)

Model Number*1	Breakdown Voltage		Standoff Voltage		Surge Waveform 8/20μsec	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
□□1007	7.5	1	6.05	200	419	14.3
ZP1010	10		8.10	10	311	19.5
□□1012	12		9.72	5	267	22.7
□□1016	16		12.9		213	28.4
□□1018	18		14.5		178	34.0
ZP1027	27		21.8		120	50.5
ZP1040	40		32.4		83	73.0
□□1050*2	50		40.5		68.9	88.0
ZP1060	60		48.6		52.6	114
ZP1075*2	75		60.7		42.2	142
ZP1120	120		97.0		27.3	222

*1 ZP: Unidirectional, CP: Dual-directional, □□: Both ZP and CP
*2 Requirements may vary depending on the quantity orderd. Please ask for details.

1500 Series

Maximum peak pulse power 15,000W (8/20μsec)

Model Number*	Breakdown Voltage		Standoff Voltage		Surge Waveform 8/20μsec	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
□□1.5K007	7.5	10	6.05	1,000	1034	14.5
□□1.5K018	18	1	14.5	5	462	32.5
□□1.5K022	22		17.8		382	39.3
□□1.5K033	33		26.8		253	59.0
□□1.5K047	47		38.1		178	84.0

* ZP: Unidirectional, CP: Dual-directional, □□: Both ZP and CP

2000 Series

Maximum peak pulse power 18,000W (8/20μsec)

Model Number*	Breakdown Voltage		Standoff Voltage		Surge Waveform 8/20μsec	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
U2006	6.8	10	5.50	2,000	1343.0	13.4
B2007	7.5		6.05	1,000	1241.0	14.5
B2008	8.2		6.63	400	1161.0	15.5
B2010	10.0	1	8.10	20	968.0	18.6
B2012	12.0		9.72	5	829.0	21.7
□2018	18.0		14.50		554.0	32.5
□2022	22.0		17.80		458.0	39.3
B2027	27.0		21.80		373.0	48.3
□2033	33.0		26.80		305.0	59.0
□2039	39.0		31.60		258.0	69.7
□2047	47.0		38.10		214.0	84.0
B2056	56.0		45.50		180.0	100.0
B2068	68.0		55.10		148.0	121.0
B2082	82.0		66.40		123.0	146.0
B2100	100.0		81.00		101.0	178.0
B2150	150.0		121.00		68.0	265.0
□2180	180.0		146.00		57.0	317.0
B2220	220.0		175.00		46.5	388.0
B2250	250.0		202.00		40.7	442.0
B2300	300.0		243.00		34.0	529.0
B2400	400.0		324.00		25.5	706.0

* U: Unidirectional, B: Dual-directional, □: Both U and B

3000 Series

Maximum peak pulse power 34,000W (8/20μsec)

Model Number*	Breakdown Voltage		Standoff Voltage		Surge Waveform 8/20μsec	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
B3007	7.5	10	6.05	2,000	2313.0	14.7
B3008	8.2		6.63		2208.0	15.4
B3010	10.0	1	8.10	100	1717.0	19.8
□3015	15.0		12.10	10	1145.0	29.7
□3018	18.0		14.50		955.0	35.6
U3022	22.0		17.80		780.0	43.6
□3033	33.0		26.80		521.0	63.5
B3036	36.0		29.16		478.0	71.0
U3039	39.0		31.60		440.0	77.2
B3056	56.0		45.50		307.0	111.0
□3068	68.0		55.10		252.0	135.0
B3082	82.0		66.40		210.0	162.0
U3180	180.0		146.00		96.0	356.0

* U: Unidirectional, B: Dual-directional, □: Both U and B

5000 Series

Maximum peak pulse power 44,000W (8/20μsec)

Model Number*	Breakdown Voltage		Standoff Voltage		Surge Waveform 8/20μsec	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
B5007	7.5	10	6.05	2,000	2963.0	15.1
B5008	8.2		6.63		2819.0	15.9
B5010	10.0	1	8.10	100	2426.0	18.5
□5015	15.0		12.10	10	1621.0	27.6
□5018	18.0		14.50		1352.0	33.1
U5022	22.0		17.80		1104.0	40.5
□5033	33.0		26.80		737.0	60.7
B5036	36.0		29.16		679.0	64.8
U5039	39.0		31.60		622.0	71.9
B5056	56.0		45.50		434.0	103.0
□5068	68.0		55.10		358.0	126.0
B5082	82.0		66.40		298.0	150.0
U5180	180.0		146.00		135.0	331.0

* U: Unidirectional, B: Dual-directional, □: Both U and B