RoHS

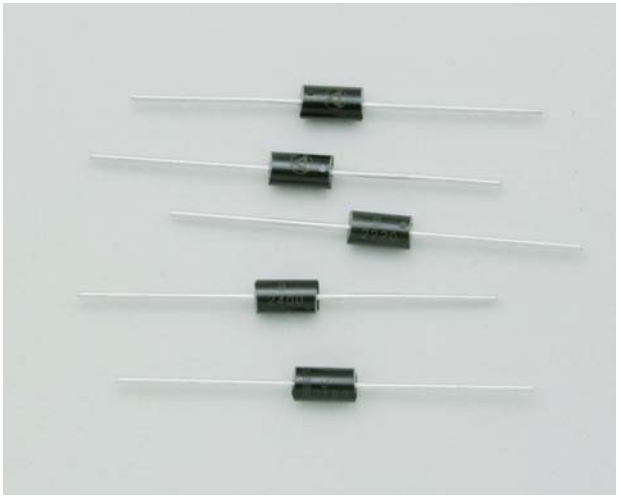
ABD
(Avalanche Breakdown Diode)

RSSA
ZP, CP, U, B SERIES

SURGE PROTECTIVE DEVICES

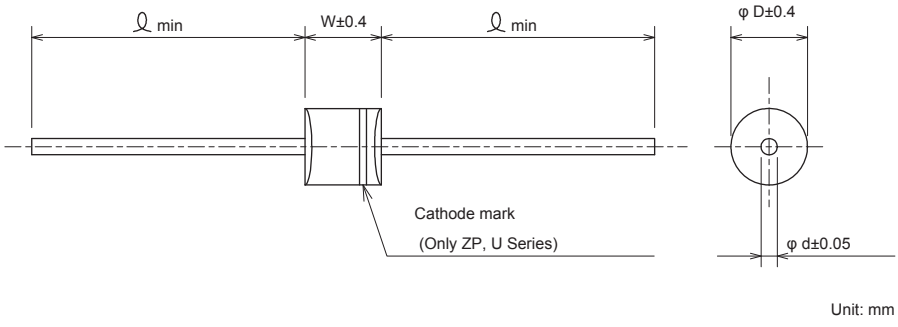
OKAYA

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	Uni-Polar Type	Bi-Polar Type	Rated Peak Impulse Current Dissipation	
			8/20μs	10/100μs
1000	ZP	CP	6,000 W	500 W
2000	U	B	18,000W	1,500W
3000	U	B	34,000W	3,500W
5000	U	B	44,000W	5000W

● *Dimensions*



Unit: mm

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

Rated Peak Impulse Power Dissipation 6,000W (8/20μsec)

Model Number*1	Nominal Breakdown Voltage		Maximum Working Voltage		Rated Peak Impulse Current	
	V_{BR} (V)	I_T (mA)	V_{WM} (V)	I_R (μA)	I_{PPM} (A)	V_C (V)
ZP1010	10	1	8.10	50	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: Uni-Polar Type, CP: Bi-Polar Type, □□: Both ZP and CP

Operating Temperature: -40~+125°C

*2 Requirements may vary depending on the quantity orderd. Please ask for details.

DAT.NO. 36001E001-2002

2000 Series

Rated Peak Impulse Power Dissipation 18,000W (8/20μsec)

Model Number*	Nominal Breakdown Voltage		Maximum Working Voltage		Rated Peak Impulse Current 8/20μsec	
	VBR (V)	IT (mA)	VWM (V)	IR (μA)	IPPM (A)	VC (V)
U2007	7.5	10	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: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C

3000 Series

Rated Peak Impulse Power Dissipation 34,000W (8/20μsec)

Model Number*	Nominal Breakdown Voltage		Maximum Working Voltage		Rated Peak Impulse Current 8/20μsec	
	VBR (V)	IT (mA)	VWM (V)	IR (μA)	IPPM (A)	VC (V)
B3008	8.2	10	6.63	2,000	2208	15.4
B3010	10.0	1	8.10	100	1717	19.8
□3015	15.0		12.10	10	1145	29.7
□3018	18.0		14.50		955	35.6
U3022	22.0		17.80		780	43.6
□3033	33.0		26.80		521	63.5
B3036	36.0		29.16		478	71.0
U3039	39.0		31.60		440	77.2
B3056	56.0		45.50		307	111.0
□3068	68.0		55.10		252	135.0
B3082	82.0		66.40		210	162.0
U3180	180.0		146.00		96	356.0

* U: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C

5000 Series

Rated Peak Impulse Power Dissipation 44,000W (8/20μsec)

Model Number*	Nominal Breakdown Voltage		Maximum Working Voltage		Rated Peak Impulse Current 8/20μsec	
	VBR (V)	IT (mA)	VWM (V)	IR (μA)	IPPM (A)	VC (V)
B5008	8.2	10	6.63	2,000	2819	15.9
B5010	10.0	1	8.10	100	2426	18.5
□5015	15.0		12.10	10	1621	27.6
□5018	18.0		14.50		1352	33.1
U5022	22.0		17.80		1104	40.5
□5033	33.0		26.80		737	60.7
B5036	36.0		29.16		679	64.8
U5039	39.0		31.60		622	71.9
B5056	56.0		45.50		434	103.0
□5068	68.0		55.10		358	126.0
B5082	82.0		66.40		298	150.0
U5180	180.0		146.00		135	331.0

* U: Uni-Polar type, B: Bi-Polar Type, □: Both U and B

Operating Temperature: -40~+125°C