


Extended MEDIUM VOLTAGE DISC VARISTORS - CV+ SERIES

Description

The CV+ series of transient surge suppressors is the extended version of CV disc shaped varistors. The CV+ series consists of 7 mm, 10 mm, 14 mm, 20 mm and 23mm sized varistors of extremely high current and energy capabilities. They provide an increased level of protection necessary for the transients expected in telecommunication and AC power networks. The AC operating voltage of these varistors ranges from 60 V to 550 V.



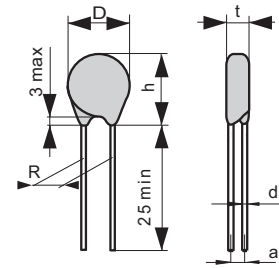
Features

- Operating voltage range V_{rms} 60 V to 550 V.
- Operating voltage range V_{dc} 85 V to 745 V.
- 5 model sizes available 7 mm, 10 mm, 14 mm, 20 mm, 23 mm.
- Broad current handling capability I_{max} 1750 A to 15000 A (8/20 μ s).
- Broad energy absorption capability W_{max}9 J to 627 J (10/1000 μ s).
- +85 °C continuous operating temperature.
- Sizes 7, 10, 14 and 20 mm available in tape and reel for automatic pick and place.
-  UL 1449, 3rd edition & CSA C22.2. File E326499 Section 6.
- Lead free components.
- Higher operating voltages are available upon request (*).
- Higher I_{max} and W_{max} are available upon request (**).

Absolute Maximum Ratings

Continuous:	Units	Value
Steady State Applied Voltage:		
DC Voltage Range (V_{dc})	V	85 to 745
AC Voltage Range (V_{rms})	V	60 to 550
Transient:		
Peak Single Pulse Surge Current, 8/20 μ s Waveform (I_{max})	A	1750 to 15000
Single Pulse Surge Energy, 10/1000 μ s Waveform (W_{max})	J	9 to 627
Operating Ambient Temperature	°C	-40 to +85
Storage Temperature	°C	-40 to +125
Threshold Voltage Temperature Coefficient	%/°C	< + 0,05
Insulation Resistance	G Ω	> 1
Isolation Voltage Capability	kV	> 2,5
Response Time	ns	< 25
Climatic Category		40 / 85 / 56

Device Ratings and Characteristics

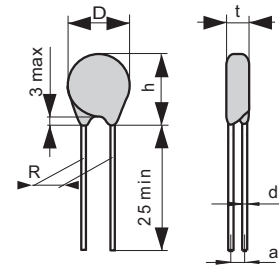


CV+ 60 K 7.....CV+ 300 K 23

Type	V_{rms} V	V_{dc} V	V_n @ 1 mA V	V_c V	I_c A	W_{max} 10/1000 μs J	P max W	I_{max} 8/20 μs A	C @ 1 kHz pF	D max mm	t max mm	R mm	d mm	h max mm
CV+ 60 K 7	60	85	100	165	10	9	0,25	1750	680	9	3,5	5	0,6	11,5
CV+ 60 K 10	60	85	100	165	25	18	0,4	3500	1200	12,5	4,1	7,5	0,8	15
CV+ 60 K 14	60	85	100	165	50	38	0,6	6000	2200	16,5	4,2	7,5	0,8	20
CV+ 60 K 20	60	85	100	165	100	77	1	12000	4100	22,5	4,6	10	1	26
CV+ 75 K 7	75	100	120	200	10	11	0,25	1750	550	9	3,6	5	0,6	11,5
CV+ 75 K 10	75	100	120	200	25	24	0,4	3500	950	12,5	4,2	7,5	0,8	15
CV+ 75 K 14	75	100	120	200	50	46	0,6	6000	1800	16,5	4,2	7,5	0,8	20
CV+ 75 K 20	75	100	120	200	100	88	1	12000	3300	22,5	4,6	10	1	26
CV+ 95 K 7	95	125	150	250	10	14	0,25	1750	440	9	3,8	5	0,6	11,5
CV+ 95 K 10	95	125	150	250	25	28	0,4	3500	750	12	4,3	7,5	0,8	15
CV+ 95 K 14	95	125	150	250	50	58	0,6	6000	1400	16	4,3	7,5	0,8	20
CV+ 95 K 20	95	125	150	250	100	116	1	12000	2600	22,5	4,6	10	1	26
CV+ 115 K 7	115	150	180	300	10	16	0,25	1750	360	9	4,0	5	0,6	11,5
CV+ 115 K 10	115	150	180	300	25	34	0,4	3500	650	12,5	4,3	7,5	0,8	15
CV+ 115 K 14	115	150	180	300	50	71	0,6	6000	1200	16,5	4,4	7,5	0,8	20
CV+ 115 K 20	115	150	180	300	100	128	1	12000	2100	22,5	4,8	10	1	26
CV+ 130 K 7	130	170	205	340	10	19	0,25	1750	360	9	4,0	5	0,6	11,5
CV+ 130 K 10	130	170	205	340	25	38	0,4	3500	580	12,5	4,5	7,5	0,8	15
CV+ 130 K 14	130	170	205	340	50	77	0,6	6000	1050	16,5	4,6	7,5	0,8	20
CV+ 130 K 20	130	170	205	340	100	154	1	12000	1900	22,5	5,0	10	1	26
CV+ 130 K 23	130	170	205	340	100	172	1	15000	3500	25	5,0	10	1	27
CV+ 140 K 7	140	180	220	360	10	22	0,25	1750	300	9	4,1	5	0,6	11,5
CV+ 140 K 10	140	180	220	360	25	42	0,4	3500	540	12,5	4,6	7,5	0,8	15
CV+ 140 K 14	140	180	220	360	50	85	0,6	6000	980	16,5	4,7	7,5	0,8	20
CV+ 140 K 20	140	180	220	360	100	170	1	12000	1800	22,5	5,1	10	1	26
CV+ 140 K 23	140	180	220	360	100	190	1	15000	3200	25	5,1	10	1	27
CV+ 150 K 7	150	200	240	395	10	23	0,25	1750	280	9	4,3	5	0,6	11,5
CV+ 150 K 10	150	200	240	395	25	46	0,4	3500	510	12,5	4,6	7,5	0,8	15
CV+ 150 K 14	150	200	240	395	50	92	0,6	6000	900	16,5	4,8	7,5	0,8	20
CV+ 150 K 20	150	200	240	395	100	185	1	12000	1600	22,5	5,2	10	1	26
CV+ 150 K 23	150	200	240	395	100	207	1	15000	2900	25	5,2	10	1	27
CV+ 175 K 7	175	225	270	455	10	26	0,25	1750	250	9	4,8	5	0,6	11,5
CV+ 175 K 10	175	225	270	455	25	53	0,4	3500	440	12,5	4,9	7,5	0,8	15
CV+ 175 K 14	175	225	270	455	50	108	0,6	6000	800	16,5	4,9	7,5	0,8	20
CV+ 175 K 20	175	225	270	455	100	210	1	12000	1400	22,5	5,3	10	1	26
CV+ 175 K 23	175	225	270	455	100	235	1	15000	2500	25	5,3	10	1	27
CV+ 230 K 7	230	300	360	595	10	35	0,25	1750	190	9	4,8	5	0,6	11,5
CV+ 230 K 10	230	300	360	595	25	71	0,4	3500	350	12,5	5,4	7,5	0,8	15
CV+ 230 K 14	230	300	360	595	50	143	0,6	6000	620	16,5	5,5	7,5	0,8	20
CV+ 230 K 20	230	300	360	595	100	280	1	12000	1100	22,5	5,9	10	1	26
CV+ 230 K 23	230	300	360	595	100	313	1	15000	2200	25	5,9	10	1	27
CV+ 250 K 7	250	320	390	650	10	38	0,25	1750	180	9	5,0	5	0,6	11,5
CV+ 250 K 10	250	320	390	650	25	77	0,4	3500	320	12,5	5,6	7,5	0,8	15
CV+ 250 K 14	250	320	390	650	50	154	0,6	6000	580	16,5	5,7	7,5	0,8	20
CV+ 250 K 20	250	320	390	650	100	300	1	12000	1000	22,5	6,1	10	1	26
CV+ 250 K 23	250	320	390	650	100	336	1	15000	1900	25	6,1	10	1	27
CV+ 275 K 7	275	350	430	710	10	44	0,25	1750	160	9	5,6	5	0,6	11,5
CV+ 275 K 10	275	350	430	710	25	88	0,4	3500	300	12,5	5,8	7,5	0,8	15
CV+ 275 K 14	275	350	430	710	50	170	0,6	6000	530	16,5	5,9	7,5	0,8	20
CV+ 275 K 20	275	350	430	710	100	330	1	12000	900	22,5	6,3	10	1	26
CV+ 275 K 23	275	350	430	710	100	370	1	15000	1600	25	6,3	10	1	27
CV+ 300 K 7	300	385	470	775	10	46	0,25	1750	150	9	5,8	5	0,6	11,5
CV+ 300 K 10	300	385	470	775	25	93	0,4	3500	280	12,5	6,1	7,5	0,8	15
CV+ 300 K 14	300	385	470	775	50	192	0,6	6000	490	16,5	6,1	7,5	0,8	20
CV+ 300 K 20	300	385	470	775	100	380	1	12000	850	22,5	6,0	10	1	27
CV+ 300 K 23	300	385	470	775	100	426	1	15000	1300	25	6,6	10	1	29

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Device Ratings and Characteristics



CV+ 320 K 10.....CV+ 550 K 23

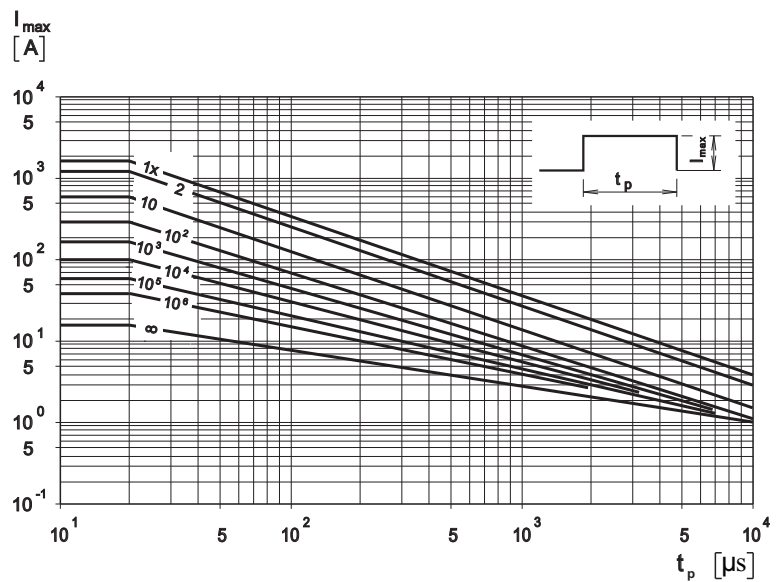
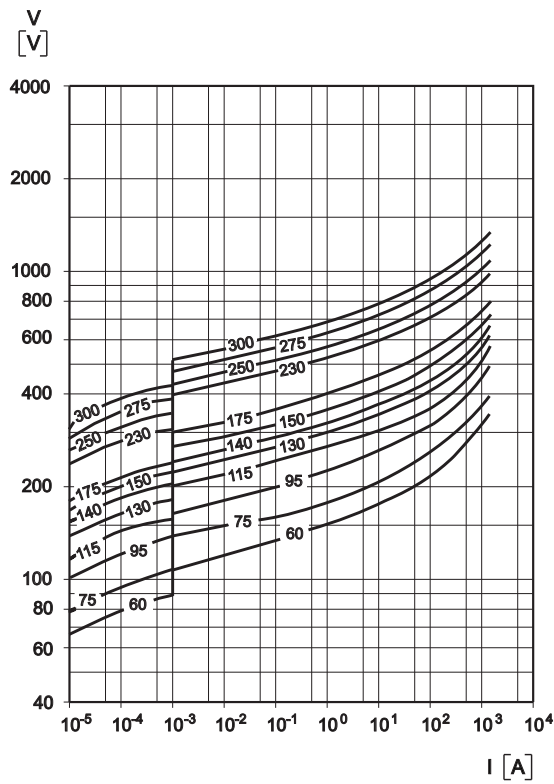
Type	V_{rms}	V_{dc}	V_n @ 1 mA	V_c	I_c	W_{max} 10/1000 μs	P max	I_{max} 8/20 μs	C @ 1 kHz	D	t	R	d	h max
	V	V	V	V	A	J	W	A	pF	mm	mm	mm	mm	mm
CV+ 320 K 10	320	420	510	840	25	104	0,4	3500	260	12,5	5,9	7,5	0,8	16
CV+ 320 K 14	320	420	510	840	50	209	0,6	6000	460	16,5	6,5	7,5	0,8	21
CV+ 320 K 20	320	420	510	840	100	420	1	12000	800	22,5	6,8	10	1	27
CV+ 320 K 23	320	420	510	840	100	470	1	15000	1100	25	6,8	10	1	29
CV+ 385 K 10	385	505	620	1025	25	106	0,4	3500	230	12,5	6,4	7,5	0,8	16
CV+ 385 K 14	385	505	620	1025	50	219	0,6	6000	390	16,5	6,9	7,5	0,8	21
CV+ 385 K 20	385	505	620	1025	100	430	1	12000	650	22,5	7,5	10	1	27
CV+ 385 K 23	385	505	620	1025	100	480	1	15000	1000	25	7,5	10	1	29
CV+ 420 K 10	420	560	680	1120	25	110	0,4	3500	210	12,5	7,3	7,5	0,8	16
CV+ 420 K 14	420	560	680	1120	50	230	0,6	6000	370	16,5	7,4	7,5	0,8	21
CV+ 420 K 20	420	560	680	1120	100	460	1	12000	620	22,5	7,8	10	1	27
CV+ 420 K 23	420	560	680	1120	100	515	1	15000	950	25	7,8	10	1	29
CV+ 460 K 10	460	615	750	1240	25	120	0,4	3500	200	12,5	7,8	7,5	0,8	16
CV+ 460 K 14	460	615	750	1240	50	250	0,6	6000	340	16,5	7,8	7,5	0,8	21
CV+ 460 K 20	460	615	750	1240	100	500	1	12000	560	22,5	8,2	10	1	27
CV+ 460 K 23	460	615	750	1240	100	560	1	15000	900	25	8,2	10	1	29
CV+ 510 K 10	510	670	820	1355	25	131	0,4	3500	180	12,5	8,2	7,5	0,8	16
CV+ 510 K 14	510	670	820	1355	50	258	0,6	6000	310	16,5	8,2	7,5	0,8	21
CV+ 510 K 20	510	670	820	1355	100	520	1	12000	510	22,5	8,7	10	1	27
CV+ 510 K 23	510	670	820	1355	100	582	1	15000	650	25	8,7	10	1	29
CV+ 550 K 10	550	745	910	1500	25	153	0,4	3500	170	12,5	8,8	7,5	0,8	16
CV+ 550 K 14	550	745	910	1500	50	300	0,6	6000	290	16,5	8,8	7,5	0,8	21
CV+ 550 K 20	550	745	910	1500	100	560	1	12000	480	22,5	9,2	10	1	27
CV+ 550 K 23	550	745	910	1500	100	627	1	15000	800	25	9,2	10	1	29

Protection Level

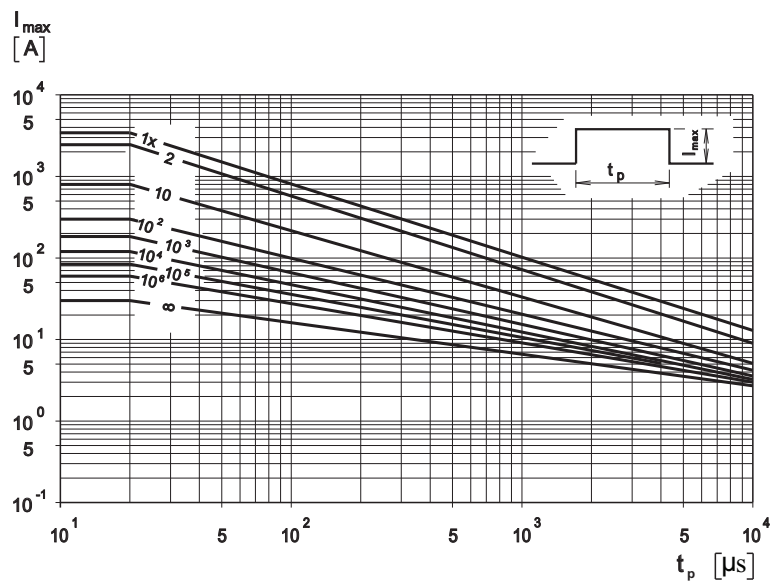
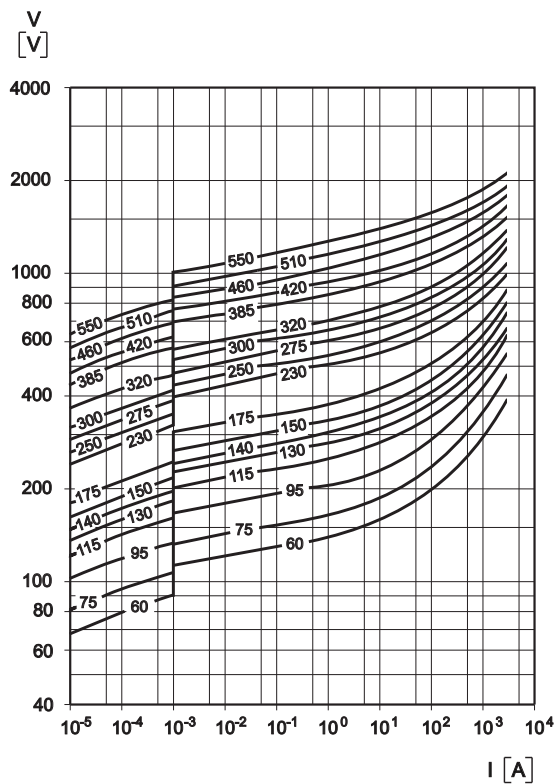
Pulse Rating Curves

* With the worst-case condition in the tolerance region

Model Size 7
CV+ 60...300



Model Size 10
CV+ 60...550



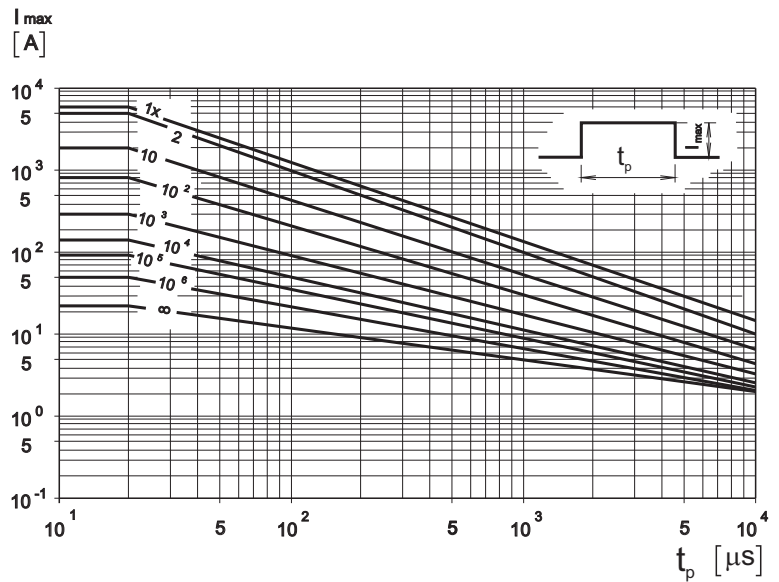
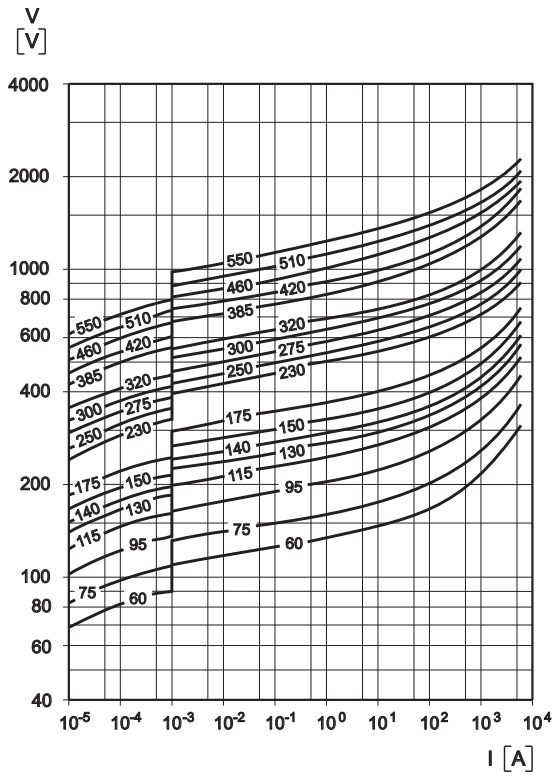
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Protection Level

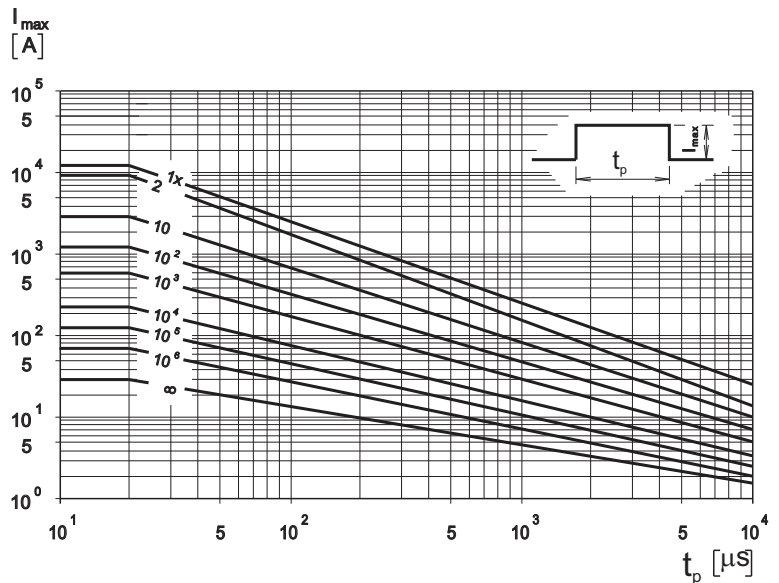
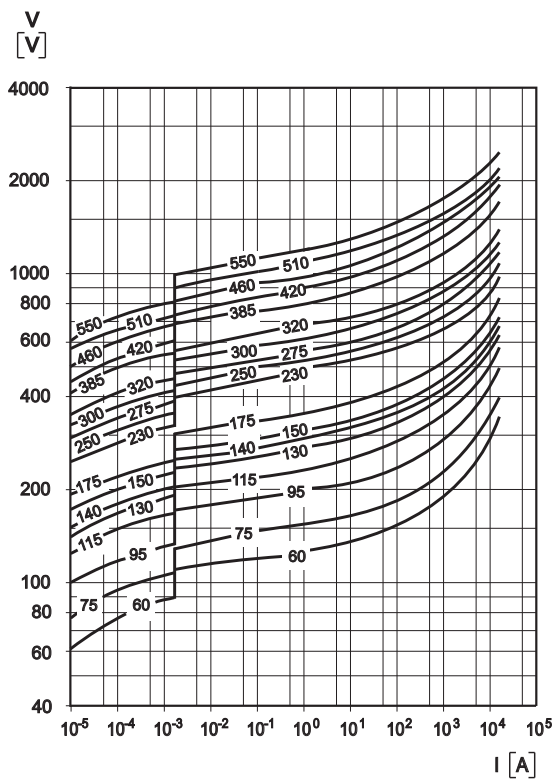
Pulse Rating Curves

* With the worst-case condition in the tolerance region

Model Size 14
CV+ 60...550



Model Size 20
CV+ 60...550



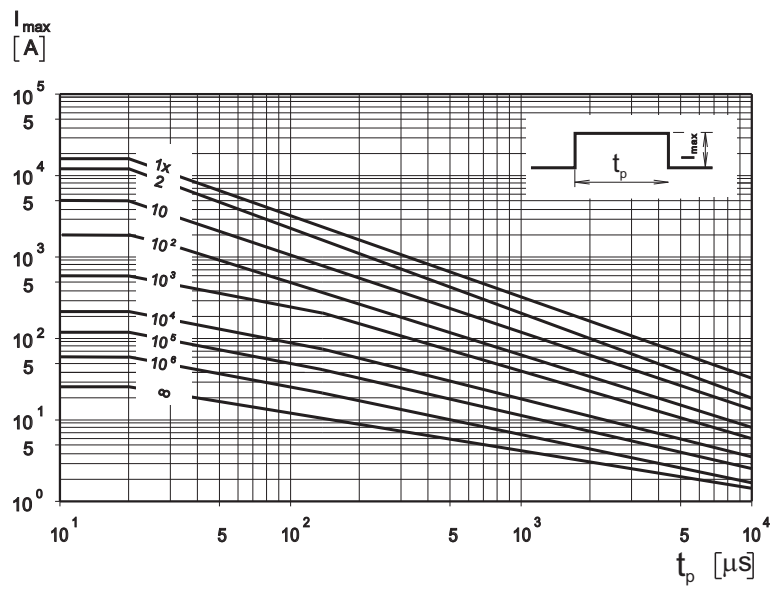
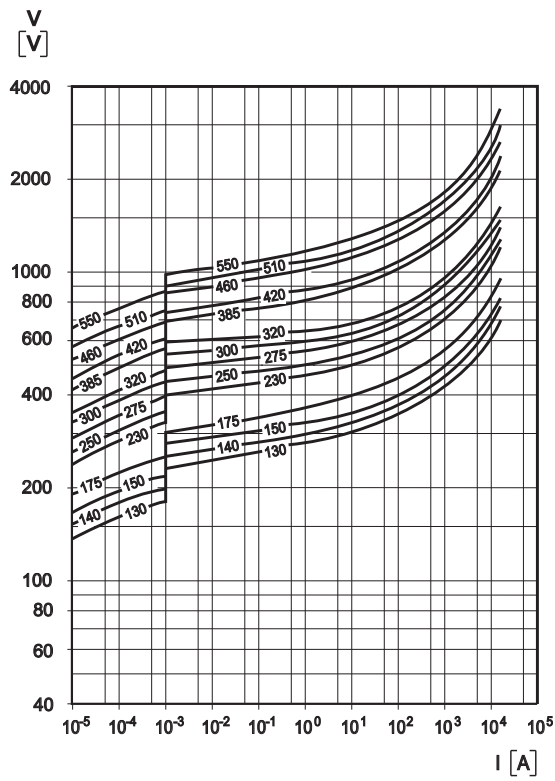
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Protection Level

Pulse Rating Curves

* With the worst-case condition in the tolerance region

Model Size 23
CV+ 60...550



Lead Styles

Type	R (mm)	h_{max} (mm)	A_{max} (mm)	Version 1	Version 5
ZV 2...40 K 5 ZV 2...40 K 7 ZV 2...40 K 10 AV 14...40 K 602 003	5 5 5 5		7 8 9 7		
ZV 4...40 K14 AV 14...40 K 802 006	5 5	9 9	12 9		
ZV 4...40 K 20 AV 14...40 K 902 012...025 AV 14...20 K 1103 050	5 5 7,5		12 12 12		
CV 50...300 K 5 CV 50...300 K 7 CV+ 60...275 K 7	5 5 5	9,5 11,5 11,5	12,5 14,5 14,5		
CV 50...680 K 10 CV 50...680 K 14 CV 50...680 K 20 CV+ 60...550 K 10 CV+ 60...550 K 14 CV+ 60...550 K 20 CV+ 130...550 K 23	7,5 7,5 10 7,5 7,5 10 10	15 20 26 15 20 26 27			
SV 60...300 K 5 SV 60...300 K 7	5 5	9,5 11,5	12,5 14,5		
SV 60...550 K 10 SV 60...550 K 14 SV 60...550 K 20 SV 130...550 K 23	7,5 7,5 10 10	15 19 26 27			

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Ordering Information

ZV Series

ZV 40 K 20 R L1 YY

- ZV** - Series Name
- 40** - Maximum Continuous Working Voltage - V_{rms}
- K** V_n Tolerance: K = $\pm 10\%$, L = $\pm 15\%$, M = $\pm 20\%$
- 20** - Size: 5, 7, 10, 14, 20
- R** - Packaging: R = Reel, A = Ammo Pack, B = Bulk
- L1** - Lead Style; 1 = straight, 5 = crimped
- YY** - Special requirements

AV Series

AV 20 K 802 006 R L1 YY

- AV** - Series Name
- 20** - Maximum Continuous Working Voltage - V_{rms}
- K** - V_n Tolerance: K = $\pm 10\%$, S = special
- 80** - Size: 60, 80, 90, 110; 80 = 8 mm
- 2** - Leas spacing Code: 2 = 5 mm, 3 = 7,5 mm
- 006** - WLD - Load Dump Energy Code: 006 = 6 J
- R** - Packaging: R = Reel, A = Ammo Pack, B = Bulk
- L1** - Lead Style; 1 = straight, 5 = crimped
- YY** - Special requirements

CV / CV+ / SV Series

CV 130 K 14 R L1 YY

- CV** - Series Name
- 130** - Maximum Continuous Working Voltage - V_{rms}
- K** - V_n Tolerance: K = $\pm 10\%$, J = $\pm 5\%$, S = special
- 14** - Size: 5, 7, 10, 14, 20, 23
- R** - Packaging: R = Reel, A = Ammo Pack, B = Bulk
- L1** - Lead Style; 1 = straight, 5 = crimped
- YY** - Speciaa requirements

Varistor Marking for ZV / AV / CV / CV+ / SV Series

For Model Size 5, 7

14Z5

- 14** - V_{rms}
- Z** - the first letter of Series Name ZV
- 5** - Model Size: 5, 7

For Model Size 602

20A003

- 20** - V_{rms}
- A** - the first letter of Series Name AV
- 003** - WLD Code: 003

For Model Size 5

CV130K5

- 130** - V_{rms}
- CV** - Series Name
- K** - V_n Tolerance
- 5** - Model Size: 5

For Model Size 10, 14

ZV 40 K10

- 40** - V_{rms}
- K** - V_n Tolerance
- 10** - Model Size: 10, 14

For Model Size 802

AV 17 K 006

- AV** - Series Name
- 17** - V_{rms}
- K** - V_n Tolerance
- 006** - WLD Code: 006

For Model Size 7, 10, 14, 20, 23

KEKO CV 300 K 20

- XX**
- KEKO** - Tradename
- CV** - Series Name: Cv, Cv+, SV
- 300** - V_{rms}
- K** - V_n Tolerance
- 20** - Model Size: 7, 10, 14, 20, 23
- xx** - Approvals

For Model Size 20

KEKO ZV 11 K20

- KEKO** - Tradename
- ZV** - Series Name
- 11** - V_{rms}
- K** - V_n Tolerance
- 20** - Model Size: 20

For Model Size 902,1103

KEKO AV 30 K 100

- KEKO** - Tradename
- AV** - Series Name
- 30** - V_{rms}
- K** - V_n Tolerance
- 100** - WLD Code: 012, 025, 050, 100

Packaging

Reel

V	5				7				10				14				20				23			
	ZV	AV/602	SV	CV/CV+	ZV	AV/802	SV	CV/CV+	ZV	AV/902	SV	CV/CV+	ZV	AV/1103	SV	CV/CV+	ZV	AV 20	AV 40	SV	CV/CV+	SV	CV/CV+	
2	1500				1500				1500				1500				1500							
4	1500				1500				1500				1500				1500							
6	1500				1500				1500				1500				1500							
8	1500				1500				1500				1500				1500							
11	1500			1800	1500			1500	1500				1500				1500							
14	1500	1500		1800	1500	1500		1500	1500	1500		1300	1500	1300			1500							
17	1500	1500		1800	1500	1500		1500	1500	1300		1300	1500	1300			1500							
20	1500	1500		1500	1500	1500		1500	1500	1300		1300	1500	1300			1500							
25	1500	1300		1500	1500	1300		1500	1500	1300		1300	1500				1500	500	400					
30	1500	1300		1500	1500	1300		1500	1500	1300		1300	1500				1500	500	400					
35	1500	1300		1500	1500	1300		1500	1500	1300		1300	1500				1500	500	400					
40	1500	1300		1500	1500	1300		1500	1500	1300		1300	1500				1500	500	400					
50				1500				1500				1300				700							600	
60			1500	1500			1500	1500			1300	1300			600	700				600	600			
75			1300	1500			1300	1500			1300	1300			600	700				600	600			
95			1300	1500			1300	1000			1200	1300			600	600				500	600			
115			1300	1300			1300	1000			1200	1000			500	600				500	500			
130			1300	1300			1300	1000			1200	1000			500	600				500	500	150	250	
140			1300	1200			1300	1000			1200	1000			500	600				500	500	150	250	
150			1200	1200			1200	1000			1000	1000			500	600				500	500	150	250	
175			1200	1200			1200	1000			1000	1000			500	500				500	500	150	250	
230			1000	1000			1000	1000			1000	1000			500	500				500	400	150	150	
250			1000	1000			1000	1000			900	800			400	400				400	400	150	150	
275			1000	1000			1000	1000			900	800			400	400				400	400	150	150	
300				900				900	1000			800	800			400	400				400	400	100	150
320												800	800			400	400				300	400	100	150
385												700	700			300	400				300	300	100	150
420												700	700			300	300				300	300	100	150
460												600	600			300	300				300	300	100	150
510												600	600			300	300				300	300	100	150
550*												600	600			300	300				300	300	100	150

* For voltages to 680 - same as for 550.

Ammo

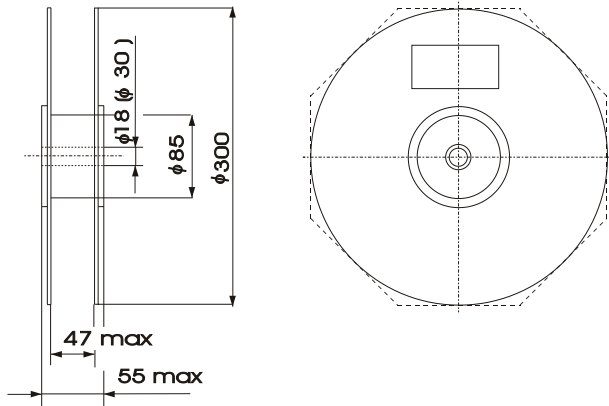
V	5				7				10				14				20				23			
	ZV	AV/602	SV	CV/CV+	ZV	AV/802	SV	CV/CV+	ZV	AV/902	SV	CV/CV+	ZV	AV/1103	SV	CV/CV+	ZV	AV 20	AV 40	SV	CV/CV+	SV	CV/CV+	
2	2000				2000				2000				2000				2000							
4	2000				2000				2000				2000				2000							
6	2000				2000				2000				2000				2000							
8	2000				2000				2000				2000				2000							
11	2000			2000	2000			2000	2000				2000				2000							
14	2000	2000		2000	2000	2000		2000	2000	1800		1800	2000	1500			2000							
17	2000	2000		2000	2000	2000		2000	2000	1800		1800	2000	1800			2000							
20	1800	2000		2000	1800	2000		2000	1800	1800		1800	1800	1800			1800							
25	1800	1800		2000	1800	1800		2000	1800	1800		1800	1800				1800	600	400					
30	1800	1800		2000	1800	1800		2000	1800	1800		1500	1800				1800	600	400					
35	1800	1800		2000	1800	1800		2000	1800	1800		1500	1800				1800	600	400					
40	1800	1800		1800	1800	1800		1800	1800	1800		1500	1800				1800	600	400					
50				2000				2000				1800				800							700	
60			1800	2000				1800	2000			1600	1600			800	800				700	700		
75			1800	2000				1800	2000			1600	1600			800	800				700	700		
95			1600	1800				1600	1800			1500	1600			700	700				700	700		
115			1600	1600				1600	1600			1300	1500			700	700				600	600		
130			1600	1600				1600	1600			1300	1300			700	700				600	600	150	250
140			1600	1600				1600	1600			1300	1300			700	700				600	600	150	250
150			1500	1500				1500	1500			1300	1300			700	700				600	600	150	250
175			1500	1500				1500	1500			1300	1300			600	600				600	600	150	250
230			1200	1200				1200	1200			1200	1200			600	600				500	500	150	150
250			1200	1200				1200	1200			1000	1000			500	500				500	500	150	150
275			1200	1200				1200	1200			1000	1000			500	500				500	500	150	150
300				1000				1000	1000			1000	1000			500	500				500	500	100	150
320												1000	1000			500	500				400	400	100	150
385												900	900			400	400				400	400	100	150
420												900	800			400	400				400	400	100	150
460												800	800			400	400				400	400	100	150
510												800	800			400	400				300	400	100	150
550*												700	700			300	400				300	400	100	150

* For voltages to 680 - same as for 550.

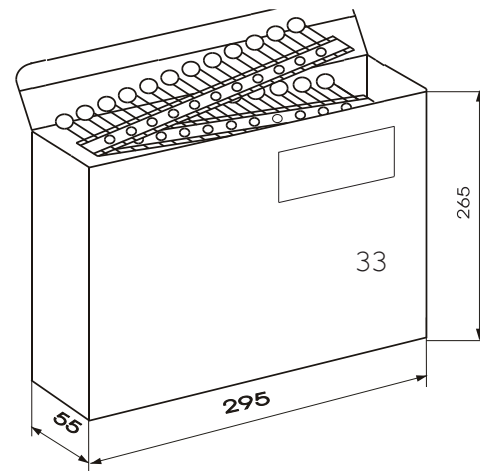
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Packaging

Reel



Ammo pack



Package units

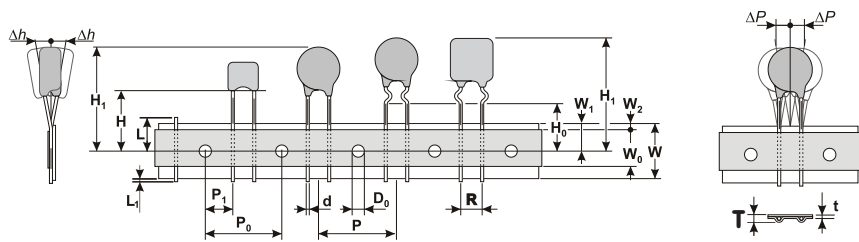
Bulk

V	5				7				10				14				20				23			
	ZV	AV/602	SV	CV/CV+	ZV	AV/802	SV	CV/CV+	ZV	AV/902	SV	CV/CV+	ZV	AV/1103	SV	CV/CV+	ZV	AV 20	AV 40	SV	CV/CV+	SV	CV/CV+	
2	1500				1500				1500				1000				1000							
4	1500				1500				1500				1000				1000							
6	1500				1500				1500				1000				1000							
8	1500				1500				1500				1000				1000							
11	1500			1500	1500			1500	1500				1000				1000							
14	1500	1500		1500	1500	1500		1500	1500	1000		600	1000	800			1000							
17	1500	1500		1500	1500	1500		1500	1500	1000		600	1000	800			1000							
20	1500	1500		1500	1500	1500		1500	1500	1000		600	1000	800			1000							
25	1500	1500		1500	1500	1500		1500	1500	1000		600	1000				1000	300	300					
30	1500	1500		1500	1500	1500		1500	1500	1000		600	1000				1000	300	300					
35	1500	1500		1500	1500	1500		1500	1500	1000		600	1000				1000	300	300					
40	1500	1500		1500	1500	1500		1500	1500	1000		600	1000				1000	300	300					
50				1500				1500				600				400						300		
60			1300	1500			1000	1500			500	600			400	400					250	300		
75			1300	1500			1000	1500			500	600			400	400					250	300		
95			1300	1500			900	1000			500	600			400	400					250	300		
115			1300	1500			900	1000			400	500			400	400					250	300		
130			1300	1500			900	1000			400	500			400	400					250	300	150	250
140			1300	1500			900	1000			400	500			400	400					250	300	150	250
150			1300	1500			900	1000			400	500			400	400					250	300	150	250
175			1300	1500			900	1000			400	500			400	400					250	300	150	250
230			900	1000			900	1000			400	500			250	300					250	200	150	150
250			900	1000			900	1000			400	500			250	300					250	200	150	150
275			900	1000			900	1000			400	500			250	300					250	200	150	150
300				1000			900	1000			400	500			250	300					150	200	100	150
320											400	500			250	300					150	200	100	150
385											300	400			250	300					150	200	100	150
420											300	400			250	300					150	200	100	150
460											300	400			250	300					150	200	100	150
510											300	400			250	300					150	200	100	150
550*											300	400			250	300					150	200	100	150

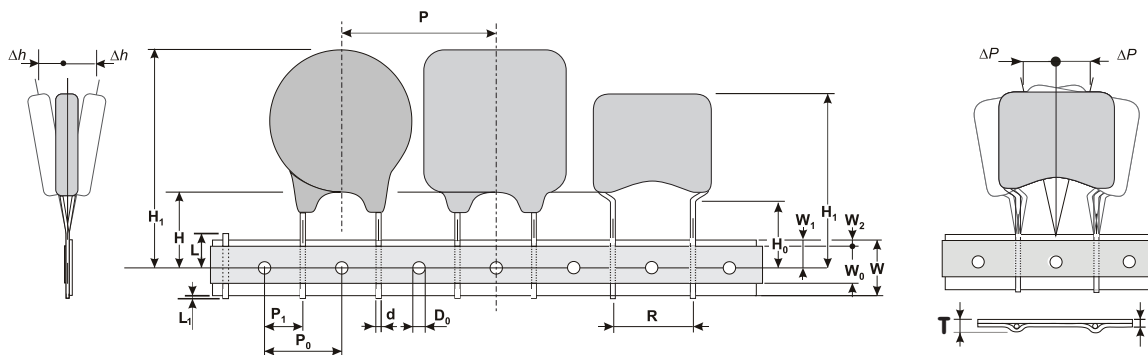
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Protection Level

Customs to IES Publication 286-2 Ed.3: 2008-03



R = 5 mm



R = 7,5 mm, 10 mm

Symbol	Parameter	Model Size				
		Φ 5	Φ 7	Φ 10	Φ 14	Φ 20
		602 / 802 / 902		1103		
Dimension (mm)						
W	Carrier tape with	18 +1,0/-0,5	18 +1,0/-0,5	18 +1,0/-0,5	18 +1,0/-0,5	18 +1,0/-0,5
W0	Hold down tape width	5 min	5 min	5 min	5 min	5 min
W1	Sprocket hole position	9 +0,75/-0,5	9 +0,75/-0,5	9 +0,75/-0,5	9 +0,75/-0,5	9 +0,75/-0,5
W2	Distance between the upper edges of the carrier tape and hold-down tape	3 max	3 max	3 max	3 max	3 max
T	Total tape thickness	1,5 max	1,5 max	1,7 max	1,7 max	1,9 max
t	Tape thickness	0,9 max	0,9 max	0,9 max	0,9 max	0,9 max
P	Pitch of component	12,7 ± 1,0	12,7 ± 1,0	12,7 ± 1,0	25,4 ± 1,0	25,4 ± 1,0
P0	Feed hole pitch	12,7 ± 0,3	12,7 ± 0,3	12,7 ± 0,3	12,7 ± 0,3	12,7 ± 0,3
P1	Feed hole center to pitch	3,85 ± 0,7	3,85 ± 0,7	8,95 ± 0,7	8,95 ± 0,7	7,7 ± 0,7
R	Lead Spacing	5 +0,5/-0,2	5 +0,5/-0,2	7,5 +0,5/-0,2	7,5 +0,5/-0,2	10 +0,5/-0,2
ΔP	Component alignment	± 1,3 max	± 1,3 max	± 1,3 max	± 1,3 max	± 1,3 max
Δh	Component alignment	± 2 max	± 2 max	± 2 max	± 2 max	± 2 max
d	Wire diameter	0,6 max	0,6 max	0,8 max	0,8 max	1 max
Do	Feed hole diameter	4 ± 0,2	4 ± 0,2	4 ± 0,2	4 ± 0,2	4 ± 0,2
H	Height from tape center to comp. base	18 +2,0/-0,0	18 +2,0/-0,0	18 +2,0/-0,0	18 +2,0/-0,0	18 +2,0/-0,0
Ho	Seating plane height	16 ± 0,5	16 ± 0,5	16 ± 0,5	16 ± 0,5	16 ± 0,5
H1	Component height	32,2 max	32,2 max	46,5 max	46,5 max	46,5 max
L	Protrusion - cut out	11 max	11 max	11 max	11 max	11 max
L1	Protrusion - cut off	0,5 max	0,5 max	0,5 max	0,5 max	0,5 max

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