

LAUBE

METAL OXIDE VARISTORS

**(J SERIES)
(High Surge & High Energy)**

5MM DIAMETER

7MM DIAMETER

10MM DIAMETER

14MM DIAMETER

20MM DIAMETER

34, 40 & 53MM DIAMETER

J SERIES (High Surge & High Energy)

Part No.	Maximum Allowable Voltage		Energy 10/1000µS (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 0.1mA (V)	Maximum Clamping Voltage at 5A (V)
	ACrms (V)	DC (V)		1 time	2 times			
				(A)				
751KD05J	460	615	32.00	800	600	0.1	750(675-825)	1240
681KD05J	420	560	29.00				680(612-748)	1120
621KD05J	385	505	25.00				620(558-682)	1025
561KD05J	350	460	23.00				560(504-616)	920
511KD05J	320	415	21.00				510(459-561)	845
471KD05J	300	385	21.00				470(423-517)	775
431KD05J	275	350	20.00				430(387-473)	710
391KD05J	250	320	17.00				390(351-429)	650
361KD05J	230	300	16.00				360(324-396)	595
331KD05J	210	275	14.50				330(297-363)	550
301KD05J	190	250	14.00				300(270-330)	505
271KD05J	175	225	13.00				270(243-297)	455
241KD05J	150	200	11.00				240(216-264)	395
221KD05J	140	180	9.00				220(198-242)	360
201KD05J	130	170	9.00				200(185-225)	330
181KD05J	115	150	8.00				180(162-198)	300
151KD05J	95	125	7.00				150(135-165)	250
121KD05J	75	100	5.00				120(108-132)	200
101KD05J	60	85	4.00				100(90-110)	165
820KD05J	50	65	4.00				82(74-90)	135

Part No.	Maximum Allowable Voltage		Energy 10/1000µS (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 0.1mA (V)	Maximum Clamping Voltage at 1A (V)
	ACrms (V)	DC (V)		1 time	2 times			
				(A)				
680KD05J	40	56	2.20	250	125	0.01	68(61-75)	*135
560KD05J	35	45	1.80				56(50-62)	*110
470KD05J	30	38	1.50				47(42-52)	*93
390KD05J	25	31	1.20				39(35-43)	*77
330KD05J	20	26	1.10				33(30-36)	*65
270KD05J	17	22	0.90				27(24-30)	*53
220KD05J	14	18	0.70				22(20-24)	*43
180LD05J	10	14	0.60				18(15-21)	*38

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Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 10A (V)
	ACrms (V)	DC (V)		1 time	2 times			
				(A)				
821KD07J	510	670	87.0	1750	1250	0.25	820(738-902)	1355
781KD07J	485	640	83.0				780(702-858)	1290
751KD07J	460	615	80.0				750(675-825)	1240
681KD07J	420	560	75.0				680(612-748)	1120
621KD07J	385	505	68.0				620(558-682)	1025
561KD07J	350	460	61.0				560(504-616)	920
511KD07J	320	415	58.0				510(459-561)	845
471KD07J	300	385	57.0				470(423-517)	775
431KD07J	275	350	51.0				430(387-473)	710
391KD07J	250	320	47.0				390(351-429)	650
361KD07J	230	300	43.0				360(324-396)	595
331KD07J	210	275	38.0				330(297-363)	550
301KD07J	190	250	36.0				300(270-330)	505
271KD07J	175	225	33.0				270(243-297)	455
241KD07J	150	200	30.0				240(216-264)	395
221KD07J	140	180	29.0				220(198-242)	360
201KD07J	130	170	27.0				200(185-225)	330
181KD07J	115	150	22.0				180(162-198)	300
151KD07J	95	125	17.0				150(135-165)	250
121KD07J	75	100	14.2				120(108-132)	200
101KD07J	60	85	12.0	100(90-110)	165			
820KD07J	50	65	10.0	82(74-90)	135			

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 2.5A (V)
	ACrms (V)	DC (V)		1 time	2 times			
				(A)				
680KD07J	40	56	7.5	500	250	0.02	68(61-75)	*135
560KD07J	35	45	6.5				56(50-62)	*110
470KD07J	30	38	5.2				47(42-52)	*93
390KD07J	25	31	4.6				39(35-43)	*77
330KD07J	20	26	4.0				33(30-36)	*65
270KD07J	17	22	3.0				27(24-30)	*53
220KD07J	14	18	2.8				22(20-24)	*43
180LD07J	10	14	2.4				18(15-21)	*38

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Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 25A (V)	UL
	ACrms (V)	DC (V)		1 time (A)	2 times (A)				
112KD10J	680	895	155.0	3500	2500	0.4	1100(990-1210)	1815	
102KD10J	625	825	140.0				1000(900-1100)	1650	●
911KD10J	550	745	134.0				910(819-1001)	1500	●
821KD10J	510	670	125.0				820(738-902)	1355	●
781KD10J	485	640	125.0				780(702-858)	1290	●
751KD10J	460	615	125.0				750(675-825)	1240	●
681KD10J	420	560	102.5				680(612-748)	1120	●
621KD10J	385	505	102.5				620(558-682)	1025	●
561KD10J	350	460	101.5				560(504-616)	920	●
511KD10J	320	415	101.0				510(459-561)	845	●
471KD10J	300	385	100.0				470(423-517)	775	●
431KD10J	275	350	89.0				430(387-473)	710	●
391KD10J	250	320	82.0				390(351-429)	650	●
361KD10J	230	300	75.0				360(324-396)	595	●
331KD10J	210	275	69.0				330(297-363)	550	●
301KD10J	190	250	63.5				300(270-330)	505	●
271KD10J	175	225	58.0				270(243-297)	455	●
241KD10J	150	200	51.0				240(216-264)	395	●
221KD10J	140	180	46.5				220(198-242)	360	●
201KD10J	130	170	42.5				200(185-225)	340	●
181KD10J	115	150	38.0				180(162-198)	300	●
151KD10J	95	125	26.0				150(135-165)	250	●
121KD10J	75	100	21.5				120(108-132)	200	●
101KD10J	60	85	18.5				100(90-110)	165	●
820KD10J	50	65	17.0	82(74-90)	135	●			

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 5A (V)	UL
	ACrms (V)	DC (V)		1 time (A)	2 times (A)				
680KD10J	40	56	16.0	1000	500	0.05	68(61-75)	*135	
560KD10J	35	45	13.0				56(50-62)	*110	
470KD10J	30	38	11.0				47(42-52)	*93	
390KD10J	25	31	9.5				39(35-43)	*77	
330KD10J	20	26	8.0				33(30-36)	*65	
270KD10J	17	22	6.5				27(24-30)	*53	
220KD10J	14	18	5.0				22(20-24)	*43	
180LD10J	10	14	3.0				18(15-21)	*38	

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Part No.	Maximum Allowable Voltage		Energy 10/1000µS (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 50A (V)	UL
	ACrms (V)	DC (V)		1 time	2 times				
				(A)					
182KD14J	1000	1465	510.0	6000	5000	0.6	1800(1620-1980)	2970	
152KD14J	750	1300	420.0				1500(1350-1650)	2475	
112KD14J	680	895	310.0				1100(990-1210)	1815	
102KD14J	625	825	280.0				1000(900-1100)	1650	●
911KD14J	550	745	255.0				910(819-1001)	1500	●
821KD14J	510	670	235.0				820(738-902)	1355	●
781KD14J	485	640	210.5				780(702-858)	1290	●
751KD14J	460	615	210.0				750(675-825)	1240	●
681KD14J	420	560	190.5				680(612-748)	1120	●
621KD14J	385	505	190.0				620(558-682)	1025	●
561KD14J	350	460	190.0				560(504-616)	920	●
511KD14J	320	415	190.0				510(459-561)	845	●
471KD14J	300	385	175.0				470(423-517)	775	●
431KD14J	275	350	155.0				430(387-473)	710	●
391KD14J	250	320	140.0				390(351-429)	650	●
361KD14J	230	300	130.0				360(324-396)	595	●
331KD14J	210	275	115.0				330(297-363)	550	●
301KD14J	190	250	105.0				300(270-330)	505	●
271KD14J	175	225	99.0				270(243-297)	455	●
241KD14J	150	200	84.0				240(216-264)	395	●
221KD14J	140	180	80.5				220(198-242)	360	●
201KD14J	130	170	80.0				200(185-225)	330	●
181KD14J	115	150	74.0				180(162-198)	300	●
151KD14J	95	125	53.0				150(135-165)	250	●
121KD14J	75	100	42.0				120(108-132)	200	●
101KD14J	60	85	35.0				100(90-110)	165	●
820KD14J	50	65	30.0				82(74-90)	135	●

Part No.	Maximum Allowable Voltage		Energy 10/1000µ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 10A (V)	UL
	ACrms (V)	DC (V)		1 time	2 times				
				(A)					
680KD14J	40	56	24.0	2000	1000	0.1	68(61-75)	*135	
560KD14J	35	45	20.0				56(50-62)	*110	
470KD14J	30	38	17.0				47(42-52)	*93	
390KD14J	25	31	13.0				39(35-43)	*77	
330KD14J	20	26	12.5				33(30-36)	*65	
270KD14J	17	22	10.0				27(24-30)	*53	
220KD14J	14	18	8.0				22(20-24)	*43	
180LD14J	10	14	7.0				18(15-21)	*38	

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Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 100A (V)	UL
	ACrms (V)	DC (V)		1 time	2 times				
				(A)					
182KD20J	1000	1465	860.0	10000	7000	1.0	1800(1620-1980)	2970	
152KD20J	750	1300	780.0				1500(1350-1650)	2475	
112KD20J	680	895	620.0				1100(990-1210)	1815	
102KD20J	625	825	560.0				1000(900-1100)	1650	●
911KD20J	550	745	510.0				910(819-1001)	1500	●
821KD20J	510	670	460.0				820(738-902)	1355	●
781KD20J	485	640	421.0				780(702-858)	1290	●
751KD20J	460	615	420.0				750(675-825)	1240	●
681KD20J	420	560	382.0				680(612-748)	1120	●
621KD20J	385	505	381.0				620(558-682)	1025	●
561KD20J	350	460	380.0				560(504-616)	920	●
511KD20J	320	415	380.0				510(459-561)	845	●
471KD20J	300	385	350.0				470(423-517)	775	●
431KD20J	275	350	305.0				430(387-473)	710	●
391KD20J	250	320	275.0				390(351-429)	650	●
361KD20J	230	300	255.0				360(324-396)	595	●
331KD20J	210	275	228.0				330(297-363)	550	●
301KD20J	190	250	210.0				300(270-330)	500	●
271KD20J	175	225	190.0				270(243-297)	455	●
241KD20J	150	200	168.0				240(216-264)	395	●
221KD20J	140	180	155.0				220(198-242)	360	●
201KD20J	130	170	140.0				200(185-225)	330	●
181KD20J	115	150	130.0				180(162-198)	300	●
151KD20J	95	125	106.0				150(135-165)	250	●
121KD20J	75	100	85.0				120(108-132)	200	●
101KD20J	60	85	70.0				100(90-110)	165	●
820KD20J	50	65	56.0				82(74-90)	135	●

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S (J)	Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage at 1mA (V)	Maximum Clamping Voltage at 25A (V)	UL
	ACrms (V)	DC (V)		1 time	2 times				
				(A)					
680KD20J	40	56	49.0	3000	1000	0.2	68(61-75)	*135	
560KD20J	35	45	41.0				56(50-62)	*110	
470KD20J	30	38	34.0				47(42-52)	*93	
390KD20J	25	31	28.0				39(35-43)	*77	
330KD20J	20	26	24.0				33(36-30)	*65	
270KD20J	17	22	19.0				27(24-30)	*53	
220KD20J	14	18	16.0				22(20-24)	*43	
180LD20J	10	14	13.0				18(15-21)	*38	

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J SERIES (High Surge & High Energy)

Part No.	Maximum Allowable voltage		Maximum Energy		Withstanding Surge Current		Maximum clamping voltage at Note2(V)	Varistor Voltage at 1mA (V)
	ACrms (V)	DC (V)	10/1000μS (J)		8/20μS time(KA) 1			
			34S/40D	53D	34S/40D	53D		
182K	1000	1465	1500	----	40	70	2970	1800(1620-1980)
152K	750	1300	1100	----			2475	1500(1350-1650)
112K	680	895	930	2500			1815	1100(900-1210)
102K	625	825	860	2200			1650	1000(900-1100)
911K	550	745	820	2000			1500	910(819-1001)
821K	510	670	740	1800			1355	820(738-902)
781K	485	640	680	1600			1290	780(702-858)
751K	460	615	680	1600			1240	750(675-825)
681K	420	560	610	1500			1120	680(612-682)
621K	385	505	610	1200			1025	620(558-682)
561K	350	460	560	1100			920	560(504-616)
511K	320	415	560	1100			845	510(459-561)
471K	300	386	510	1000			775	470(423-517)
431K	275	350	470	950			710	430(387-473)
391K	250	320	440	880			650	390(351-429)
361K	230	300	410	730			595	360(324-396)
331K	210	275	380	680			550	330(297-363)
301K	190	250	350	----			500	300(270-330)
271K	175	225	320	630			455	270(243-297)
241K	150	200	300	570			395	240(216-264)
221K	140	180	280	530	360	220(198-242)		
201K	130	170	260	490	330	200(185-225)		

Note2: *34S / 40D 201K-182K max. clamping voltage testing current 300A

*53D 201K-182K max. clamping voltage testing current 500A