

Disc Varistor

FEATURES

- * Wide operating voltages ranging from 5Vrms to 1000Vrms (6Vdc to 1465Vdc).
- * Fast response time of less than 25nS, instantly clamping the transient over voltage.
- * High surge current handling capability.
- * High energy absorption capability.
- * Low clamping voltages, providing better surge protection
- * Low capacitance values, providing digital switching circuitry protection.
- * High insulation resistance, preventing electric arching to the adjacent devices or circuits.

APPLICATIONS

- * Transistor, Diode, IC, Thyristor or Triac semiconductor protection.
- * Surge protection in consumer electronics.
- * Surge protection in industrial electronics.
- * Surge protection in electronic home appliances, gas and petroleum appliances.
- * Relay and electromagnetic valve surge absorption.

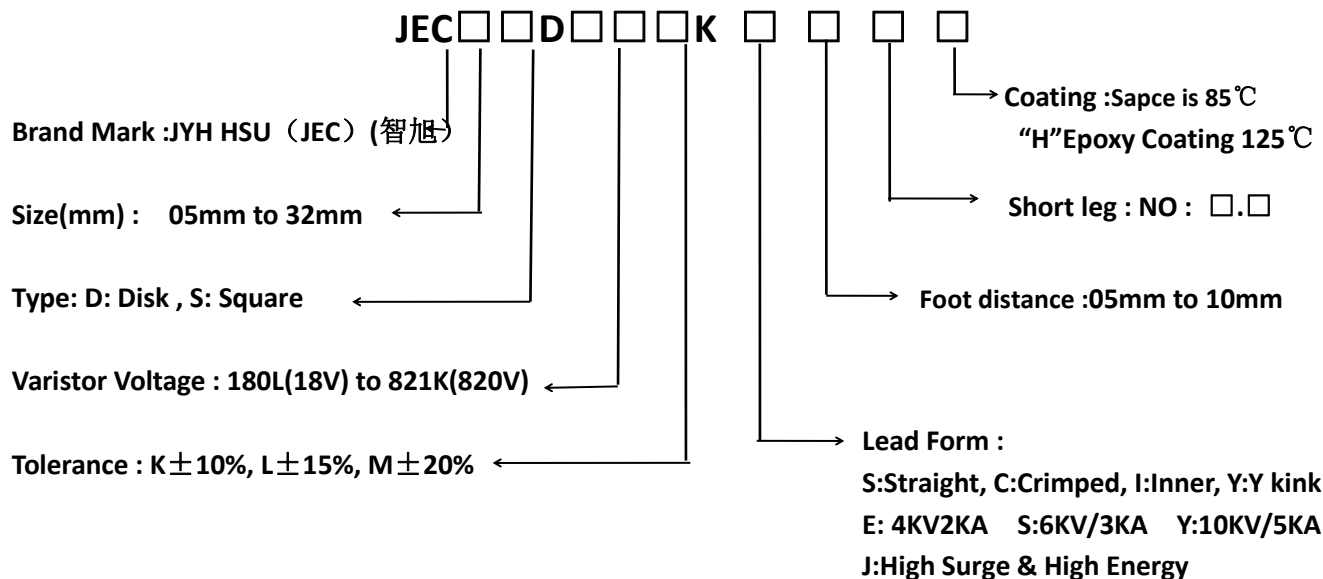
General Characteristics Definition

- *Operating Temperature: -40 oC ~ +85 oC
- *Storage Temperature: -40 oC ~ +125 oC
- *Working Surface Temperature: +115 oC
- *Insulation Resistance: > 100M Ω
- *Coating (Epoxy Resin): Flame-Retardant to UL 94 V-0

Material

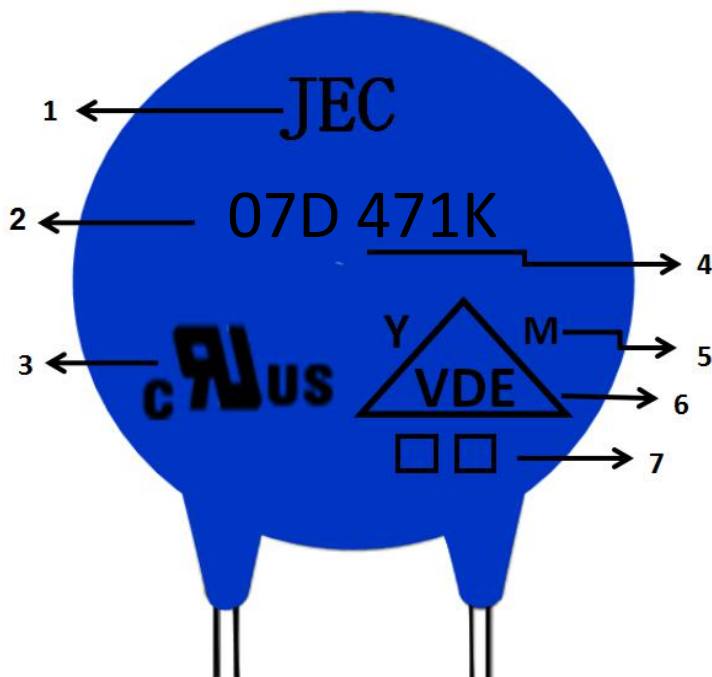
- *Coating: Epoxy Resin
- *Lead Wire: The Copper Wire
- *Electrode: Silver Solder
- *Disk: Zinc Oxide

JYH HSU (JEC) 料号编码:



MARKING

- 1 JYH HSU (JEC) Logo
- 2 Disk Size
- 3 CUL Accreditation Logo
- 4 "Y" & "M" Product Line Code
- 5 Varistor Voltage
- 6 VDE Accreditation Logo
- 7 "J" is High Surge Code, not "J" is Standard Surge
"H" is High temperature range , not "H" is Standard



TYPE

Series	Varistor Voltage	T Max.	D Max.	H Max.		L min.	F ±0.8	d ± 0.05
				S	I / C / Y			
05D	180L~680K	4.0	7.5	10.5	13.0	20.0	5.0	0.6
	820K~151K	4.5						
	181K~271K	5.0						
	301K~391K	5.5						
	431K~561K	6.0						
	621K~751K	6.5						
07D	180L~390K	4.0	9.0	11.0	14.0	20.0	5.0	0.6
	470K~820K	4.5						
	101K~271K	5.0						
	331K~391K	5.5						
	431K~561K	6.0						
	621K~821K	6.5						
10D	180L~680K	4.0	12.5	14.0	17.0	25.0	7.5/10	0.8
	820K~151K	5.0						
	181K~271K	5.5						
	331K~391K	6.0						
	431K~561K	6.5						
	621K~751K	7.0						
	821K~112K	7.5						
14D	180L~680K	4.5	17.0	18.0	21.0	20.0	7.5	0.8
	820K~271K	5.0						
	331K~391K	5.5						
	431K~561K	6.0						
	621K~781K	6.5						
	821K~112K	8.0						
	152K~182K	11.5						
20D	180L~680K	4.5	22.0	25.0	28.0	20.0	10.0	1.0
	820K~151K	5.0						
	181K~271K	5.2						
	331K~391K	5.5						
	431K~561K	6.5						
	621K~781K	7.0						
	821K~112K	8.5						
	152K~182K	12.0						
25D	180L~680K	5.5	28.0	32.0	34.0	20.0	10.0±1.0	1.0
	820K~151K	6.0						
	181K~271K	6.5						
	331K~391K	7.0						
	431K~561K	7.5						
	621K~781K	8.5						
	821K~122K	10.5						
	142K~182K	13.0						

05D Standard & High Surge

产品型号 Part Number	最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μS Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
	AC (V)	DC (V)		V0.1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准系列 (J) Standard		
JEC-05D180L	11	14	18(15.3~20.7)	1	40	100	250	0.4	0.6	0.01	1400
JEC-05D220K	14	18	22(19.8~24.2)	1	48	100	250	0.5	0.7	0.01	1150
JEC-05D270K	17	22	27(24.3~29.7)	1	60	100	250	0.6	0.9	0.01	930
JEC-05D330K	20	26	33(29.7~36.3)	1	73	100	250	0.8	1.1	0.01	760
JEC-05D390K	25	31	39(35.1~42.9)	1	80	100	250	0.9	1.2	0.01	640
JEC-05D470K	30	38	47(42.3~51.7)	1	104	100	250	1.1	1.5	0.01	530
JEC-05D560K	35	45	56(50.4~61.6)	1	123	100	250	1.3	1.8	0.01	450
JEC-05D680K	40	56	68(61.2~74.8)	1	145	100	250	1.6	2.2	0.01	370
JEC-05D820K	50	65	82(73.8~90.2)	5	150	400	800	2.5	4.0	0.1	300
JEC-05D101K	60	85	100(90~110)	5	177	400	800	3.0	4.1	0.1	250
JEC-05D121K	75	100	120(108~132)	5	210	400	800	4.0	4.9	0.1	210
JEC-05D151K	95	125	150(135~165)	5	260	400	800	4.1	6.5	0.1	165
JEC-05D181K	115	150	180(162~198)	5	320	400	800	4.9	7.5	0.1	140
JEC-05D201K	130	170	200(185~225)	5	355	400	800	6.5	8.5	0.1	125
JEC-05D221K	140	180	220(198~242)	5	380	400	800	7.5	9.0	0.1	110
JEC-05D241K	150	200	240(216~264)	5	415	400	800	8.0	10.5	0.1	100
JEC-05D271K	175	225	270(243~297)	5	475	400	800	8.5	11.0	0.1	95
JEC-05D301K	190	250	300(270~330)	5	520	400	800	9.0	12.0	0.1	85
JEC-05D331K	210	275	330(297~363)	5	570	400	800	9.5	13.0	0.1	75
JEC-05D361K	230	300	360(324~396)	5	620	400	800	10.0	16.0	0.1	70
JEC-05D391K	250	320	390(351~429)	5	675	400	800	12.0	17.0	0.1	65
JEC-05D431K	275	350	430(387~473)	5	745	400	800	13.0	20.0	0.1	60
JEC-05D471K	300	385	470(423~517)	5	810	400	800	15.0	21.0	0.1	55
JEC-05D511K	320	415	510(459~561)	5	845	400	800	16.0	22.5	0.1	50
JEC-05D561K	350	460	560(504~616)	5	920	400	800	16.5	24.0	0.1	45
JEC-05D621K	385	505	620(558~682)	5	1025	400	800	21.0	25.0	0.1	40
JEC-05D681K	420	560	680(612~748)	5	1120	400	800	22.0	29.0	0.1	35
JEC-05D751K	460	615	750(675~825)	5	1240	400	800	22.4	32.0	0.1	30

07D Standard & High Surge

产品型号 Part Number		最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μS Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
标准系列 Standard	高焦尔 High Surge	AC (V)	DC (V)	V1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准系列 (J) Standard	高焦尔 (J) High Surge	(W)	@1KJzPF
JEC-07D180L	JEC-07D180LJ	11	14	18(15.3~20.7)	2.5	36	250	500	0.9	2.0	0.02	2800
JEC-07D220K	JEC-07D220KJ	14	18	22(19.8~24.2)	2.5	43	250	500	1.1	2.4	0.02	2300
JEC-07D270K	JEC-07D270KJ	17	22	27(24.3~29.7)	2.5	53	250	500	1.4	3.0	0.02	1800
JEC-07D330K	JEC-07D330KJ	20	26	33(29.7~36.3)	2.5	65	250	500	1.7	3.5	0.02	1500
JEC-07D390K	JEC-07D390KJ	25	31	39(35.1~42.9)	2.5	77	250	500	2.1	4.0	0.02	1300
JEC-07D470K	JEC-07D470KJ	30	38	47(42.3~51.7)	2.5	93	250	500	2.5	5.0	0.02	1100
JEC-07D560K	JEC-07D560KJ	35	45	56(50.4~61.6)	2.5	110	250	500	3.1	6.0	0.02	890
JEC-07D680K	JEC-07D680KJ	40	56	68(61.2~74.8)	2.5	135	250	500	3.6	7.0	0.02	740
JEC-07D820K	JEC-07D820KJ	50	65	82(73.8~90.2)	10	135	1200	1750	5.5	10	0.25	600
JEC-07D101K	JEC-07D101KJ	60	85	100(90~110)	10	165	1200	1750	6.5	12	0.25	500
JEC-07D121K	JEC-07D121KJ	75	100	120(108~132)	10	200	1200	1750	7.8	12	0.25	420
JEC-07D151K	JEC-07D151KJ	95	125	150(135~165)	10	250	1200	1750	9.7	13	0.25	330
JEC-07D181K	JEC-07D181KJ	115	150	180(162~198)	10	300	1200	1750	11.7	16	0.25	280
JEC-07D201K	JEC-07D201KJ	130	170	200(185~225)	10	330	1200	1750	13	17	0.25	250
JEC-07D221K	JEC-07D221KJ	140	180	220(198~242)	10	360	1200	1750	14	19	0.25	230
JEC-07D241K	JEC-07D241KJ	150	200	240(216~264)	10	395	1200	1750	15	21	0.25	210
JEC-07D271K	JEC-07D271KJ	175	225	270(243~297)	10	455	1200	1750	18	24	0.25	185
JEC-07D301K	JEC-07D301KJ	190	250	300(270~330)	10	505	1200	1750	20	26	0.25	165
JEC-07D331K	JEC-07D331KJ	210	275	330(297~363)	10	550	1200	1750	23	28	0.25	150
JEC-07D361K	JEC-07D361KJ	230	300	360(324~396)	10	595	1200	1750	25	32	0.25	140
JEC-07D391K	JEC-07D391KJ	250	320	390(351~429)	10	650	1200	1750	25	35	0.25	130
JEC-07D431K	JEC-07D431KJ	275	350	430(387~473)	10	710	1200	1750	28	40	0.25	115
JEC-07D471K	JEC-07D471KJ	300	385	470(423~517)	10	775	1200	1750	30	42	0.25	105
JEC-07D511K	JEC-07D511KJ	320	415	510(459~561)	10	845	1200	1750	30	45	0.25	100
JEC-07D561K	JEC-07D561KJ	350	460	560(504~616)	10	920	1200	1750	30	49	0.25	90
JEC-07D621K	JEC-07D621KJ	385	505	620(558~682)	10	1025	1200	1750	33	55	0.25	80
JEC-07D681K	JEC-07D681KJ	420	560	680(612~748)	10	1120	1200	1750	33	60	0.25	75
JEC-07D751K	JEC-07D751KJ	460	615	750(675~825)	10	1240	1200	1750	65	67	0.25	70
JEC-07D781K	JEC-07D781KJ	485	640	780(702~858)	10	1290	1200	1750	65	67	0.25	70
JEC-07D821K	JEC-07D821KJ	510	670	820(738~902)	10	1355	1200	1750	65	70	0.25	60

10D Standard & High Surge

产品型号 Part Number		最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μ S Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
标准系列 Standard	高焦尔 High Surge	AC (V)	DC (V)	V1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准系列 (J) Standard	高焦尔 (J) High Surge	(W)	@1KJzPF
JEC-10D180L	JEC-10D180LJ	11	14	18(15.3~20.7)	5	36	500	1000	2.1	3	0.05	5600
JEC-10D220K	JEC-10D220KJ	14	18	22(19.8~24.2)	5	43	500	1000	2.5	5	0.05	4500
JEC-10D270K	JEC-10D270KJ	17	22	27(24.3~29.7)	5	53	500	1000	3.0	6	0.05	3700
JEC-10D330K	JEC-10D330KJ	20	26	33(29.7~36.3)	5	65	500	1000	4.0	7	0.05	3000
JEC-10D390K	JEC-10D390KJ	25	31	39(35.1~42.9)	5	77	500	1000	4.6	9	0.05	2400
JEC-10D470K	JEC-10D470KJ	30	38	47(42.3~51.7)	5	93	500	1000	5.5	11	0.05	2100
JEC-10D560K	JEC-10D560KJ	35	45	56(50.4~61.6)	5	110	500	1000	7.0	13	0.05	1800
JEC-10D680K	JEC-10D680KJ	40	56	68(61.2~74.8)	5	135	500	1000	8.2	15	0.05	1500
JEC-10D820K	JEC-10D820KJ	50	65	82(73.8~90.2)	25	135	2500	3500	12	17	0.4	1200
JEC-10D101K	JEC-10D101KJ	60	85	100(90~110)	25	165	2500	3500	15	18	0.4	1000
JEC-10D121K	JEC-10D121KJ	75	100	120(108~132)	25	200	2500	3500	18	21	0.4	830
JEC-10D151K	JEC-10D151KJ	95	125	150(135~165)	25	250	2500	3500	22	25	0.4	670
JEC-10D181K	JEC-10D181KJ	115	150	180(162~198)	25	300	2500	3500	27	30	0.4	560
JEC-10D201K	JEC-10D201KJ	130	170	200(185~225)	25	330	2500	3500	30	35	0.4	500
JEC-10D221K	JEC-10D221KJ	140	180	220(198~242)	25	360	2500	3500	32	39	0.4	450
JEC-10D241K	JEC-10D241KJ	150	200	240(216~264)	25	395	2500	3500	35	42	0.4	420
JEC-10D271K	JEC-10D271KJ	175	225	270(243~297)	25	455	2500	3500	37	49	0.4	370
JEC-10D301K	JEC-10D301KJ	190	250	300(270~330)	25	505	2500	3500	40	54	0.4	330
JEC-10D331K	JEC-10D331KJ	210	275	330(297~363)	25	550	2500	3500	43	58	0.4	300
JEC-10D361K	JEC-10D361KJ	230	300	360(324~396)	25	595	2500	3500	47	65	0.4	280
JEC-10D391K	JEC-10D391KJ	250	320	390(351~429)	25	650	2500	3500	60	70	0.4	260
JEC-10D431K	JEC-10D431KJ	275	350	430(387~473)	25	710	2500	3500	65	80	0.4	230
JEC-10D471K	JEC-10D471KJ	300	385	470(423~517)	25	775	2500	3500	67	85	0.4	210
JEC-10D511K	JEC-10D511KJ	320	415	510(459~561)	25	845	2500	3500	69	90	0.4	200
JEC-10D561K	JEC-10D561KJ	350	460	560(504~616)	25	920	2500	3500	70	92	0.4	180
JEC-10D621K	JEC-10D621KJ	385	505	620(558~682)	25	1025	2500	3500	72	95	0.4	160
JEC-10D681K	JEC-10D681KJ	420	560	680(612~748)	25	1120	2500	3500	75	98	0.4	150
JEC-10D751K	JEC-10D751KJ	460	615	750(675~825)	25	1240	2500	3500	77	100	0.4	140
JEC-10D781K	JEC-10D781KJ	485	640	780(702~858)	25	1290	2500	3500	80	105	0.4	130
JEC-10D821K	JEC-10D821KJ	510	670	820(738~902)	25	1355	2500	3500	85	110	0.4	120
JEC-10D911K	JEC-10D911KJ	550	745	910(819~1001)	25	1500	2500	3500	93	130	0.4	110
JEC-10D102K	JEC-10D102KJ	625	825	1000(900~110)	25	1650	2500	3500	102	140	0.4	100
JEC-10D112K	JEC-10D112KJ	680	895	1100(990~121)	25	1815	2500	3500	115	150	0.4	90

14D Standard & High Surge

产品型号 Part Number		最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μS Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
标准系列 Standard	高焦尔 High Surge	AC (V)	DC (V)	V1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准系列 (J) Standar	高焦尔 (J) High Surge	(W)	@1KJzPF
JEC-14D180L	JEC-14D180LJ	11	14	18(15.3~20.7)	10	36	1000	2000	4	7	0.1	11000
JEC-14D220K	JEC-14D220KJ	14	18	22(19.8~24.2)	10	43	1000	2000	5	8	0.1	9100
JEC-14D270K	JEC-14D270KJ	17	22	27(24.3~29.7)	10	53	1000	2000	6	10	0.1	7400
JEC-14D330K	JEC-14D330KJ	20	26	33(29.7~36.3)	10	65	1000	2000	8	12	0.1	6100
JEC-14D390K	JEC-14D390KJ	25	31	39(35.1~42.9)	10	77	1000	2000	9	13	0.1	5100
JEC-14D470K	JEC-14D470KJ	30	38	47(42.3~51.7)	10	93	1000	2000	10	17	0.1	4300
JEC-14D560K	JEC-14D560KJ	35	45	56(50.4~61.6)	10	110	1000	2000	11	20	0.1	3600
JEC-14D680K	JEC-14D680KJ	40	56	68(61.2~74.8)	10	135	1000	2000	14	24	0.1	2900
JEC-14D820K	JEC-14D820KJ	50	65	82(73.8~90.2)	50	135	4500	6000	22	27	0.6	2400
JEC-14D101K	JEC-14D101KJ	60	85	100(90~110)	50	165	4500	6000	28	33	0.6	2000
JEC-14D121K	JEC-14D121KJ	75	100	120(108~132)	50	200	4500	6000	32	40	0.6	1700
JEC-14D151K	JEC-14D151KJ	95	125	150(135~165)	50	250	4500	6000	40	53	0.6	1300
JEC-14D181K	JEC-14D181KJ	115	150	180(162~198)	50	300	4500	6000	50	60	0.6	1100
JEC-14D201K	JEC-14D201KJ	130	170	200(185~225)	50	330	4500	6000	57	70	0.6	1000
JEC-14D221K	JEC-14D221KJ	140	180	220(198~242)	50	360	4500	6000	60	78	0.6	830
JEC-14D241K	JEC-14D241KJ	150	200	240(216~264)	50	395	4500	6000	63	84	0.6	740
JEC-14D271K	JEC-14D271KJ	175	225	270(243~297)	50	455	4500	6000	70	99	0.6	670
JEC-14D301K	JEC-14D301KJ	190	250	300(270~330)	50	505	4500	6000	77	108	0.6	610
JEC-14D331K	JEC-14D331KJ	210	275	330(297~363)	50	550	4500	6000	85	115	0.6	560
JEC-14D361K	JEC-14D361KJ	230	300	360(324~396)	50	595	4500	6000	93	130	0.6	510
JEC-14D391K	JEC-14D391KJ	250	320	390(351~429)	50	650	4500	6000	100	140	0.6	460
JEC-14D431K	JEC-14D431KJ	275	350	430(387~473)	50	710	4500	6000	115	155	0.6	230
JEC-14D471K	JEC-14D471KJ	300	385	470(423~517)	50	775	4500	6000	125	175	0.6	430
JEC-14D511K	JEC-14D511KJ	320	415	510(459~561)	50	845	4500	6000	126	180	0.6	390
JEC-14D561K	JEC-14D561KJ	350	460	560(504~616)	50	920	4500	6000	127	185	0.6	360
JEC-14D621K	JEC-14D621KJ	385	505	620(558~682)	50	1025	4500	6000	128	190	0.6	320
JEC-14D681K	JEC-14D681KJ	420	560	680(612~748)	50	1120	4500	6000	130	200	0.6	290
JEC-14D751K	JEC-14D751KJ	460	615	750(675~825)	50	1240	4500	6000	143	210	0.6	270
JEC-14D781K	JEC-14D781KJ	485	640	780(702~858)	50	1290	4500	6000	148	220	0.6	260
JEC-14D821K	JEC-14D821KJ	510	670	820(738~902)	50	1355	4500	6000	157	235	0.6	240
JEC-14D911K	JEC-14D911KJ	550	745	910(819~1001)	50	1500	4500	6000	175	255	0.6	220
JEC-14D102K	JEC-14D102KJ	625	825	1000(900~1100)	50	1650	4500	6000	190	280	0.6	200
JEC-14D112K	JEC-14D112KJ	680	895	1100(990~1210)	50	1815	4500	6000	213	310	0.6	180
JEC-14D122K	JEC-14D122KJ	750	990	1200(1080~1320)	50	1980	4500	6000	232	324	0.6	160
JEC-14D142K	JEC-14D142KJ	880	1140	1400(1260~1540)	50	2310	4500	6000	238	327	0.6	150
JEC-14D162K	JEC-14D162KJ	1000	1280	1600(1400~1760)	50	2640	4500	6000	243	331	0.6	140
JEC-14D182K	JEC-14D182KJ	1100	1465	1800(1620~1980)	50	2970	4500	6000	250	335	0.6	130

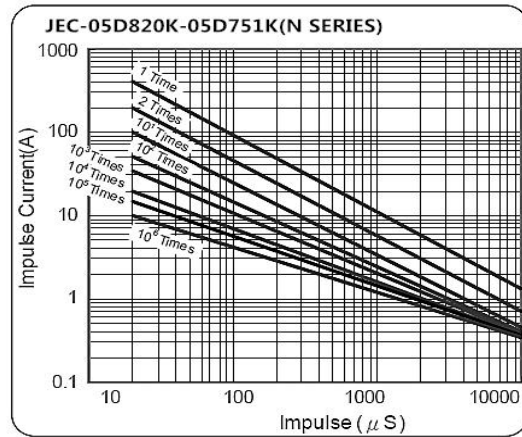
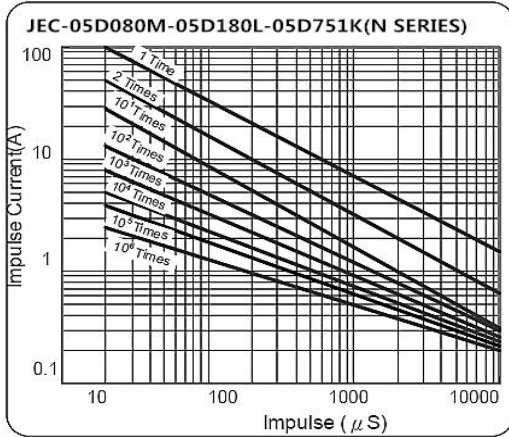
20D Standard & High Surge

产品型号 Part Number		最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μS Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
标准系列 Standard	高焦尔 High Surge	AC (V)	DC (V)	V1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准 系列 (J)	高焦尔 (J) High Surge	(W)	@1KJzPF
JEC-20D180L	JEC-20D180LJ	11	14	18(15.3~20.7)	20	36	2000	3000	11	13	0.2	28500
JEC-20D220K	JEC-20D220KJ	14	18	22(19.8~24.2)	20	43	2000	3000	14	16	0.2	18500
JEC-20D270K	JEC-20D270KJ	17	22	27(24.3~29.7)	20	53	2000	3000	16	19	0.2	13000
JEC-20D330K	JEC-20D330KJ	20	26	33(29.7~36.3)	20	65	2000	3000	23	24	0.2	11500
JEC-20D390K	JEC-20D390KJ	25	31	39(35.1~42.9)	20	77	2000	3000	26	28	0.2	8500
JEC-20D470K	JEC-20D470KJ	30	38	47(42.3~51.7)	20	93	2000	3000	30	34	0.2	7400
JEC-20D560K	JEC-20D560KJ	35	45	56(50.4~61.6)	20	110	2000	3000	41	46	0.2	6500
JEC-20D680K	JEC-20D680KJ	40	56	68(61.2~74.8)	20	135	2000	3000	46	49	0.2	5800
JEC-20D820K	JEC-20D820KJ	50	65	82(73.8~90.2)	100	135	6500	10000	38	56	1.0	4900
JEC-20D101K	JEC-20D101KJ	60	85	100(90~110)	100	165	6500	10000	45	70	1.0	4000
JEC-20D121K	JEC-20D121KJ	75	100	120(108~132)	100	200	6500	10000	55	85	1.0	3300
JEC-20D151K	JEC-20D151KJ	95	125	150(135~165)	100	250	6500	10000	70	106	1.0	2700
JEC-20D181K	JEC-20D181KJ	115	150	180(162~198)	100	300	6500	10000	85	130	1.0	2200
JEC-20D201K	JEC-20D201KJ	130	170	200(185~225)	100	330	6500	10000	95	140	1.0	2000
JEC-20D221K	JEC-20D221KJ	140	180	220(198~242)	100	360	6500	10000	100	155	1.0	1800
JEC-20D241K	JEC-20D241KJ	150	200	240(216~264)	100	395	6500	10000	108	168	1.0	1650
JEC-20D271K	JEC-20D271KJ	175	225	270(243~297)	100	455	6500	10000	127	190	1.0	1500
JEC-20D301K	JEC-20D301KJ	190	250	300(270~330)	100	505	6500	10000	136	210	1.0	1300
JEC-20D331K	JEC-20D331KJ	210	275	330(297~363)	100	550	6500	10000	150	228	1.0	1200
JEC-20D361K	JEC-20D361KJ	230	300	360(324~396)	100	595	6500	10000	163	255	1.0	1100
JEC-20D391K	JEC-20D391KJ	250	320	390(351~429)	100	650	6500	10000	180	275	1.0	1000
JEC-20D431K	JEC-20D431KJ	275	350	430(387~473)	100	710	6500	10000	190	305	1.0	930
JEC-20D471K	JEC-20D471KJ	300	385	470(423~517)	100	775	6500	10000	220	350	1.0	850
JEC-20D511K	JEC-20D511KJ	320	415	510(459~561)	100	845	6500	10000	225	360	1.0	780
JEC-20D561K	JEC-20D561KJ	350	460	560(504~616)	100	920	6500	10000	230	380	1.0	710
JEC-20D621K	JEC-20D621KJ	385	505	620(558~682)	100	1025	6500	10000	235	390	1.0	650
JEC-20D681K	JEC-20D681KJ	420	560	680(612~748)	100	1120	6500	10000	240	400	1.0	600
JEC-20D751K	JEC-20D751KJ	460	615	750(675~825)	100	1240	6500	10000	255	420	1.0	530
JEC-20D781K	JEC-20D781KJ	485	640	780(702~858)	100	1290	6500	10000	265	440	1.0	510
JEC-20D821K	JEC-20D821KJ	510	670	820(738~902)	100	1355	6500	10000	282	460	1.0	500
JEC-20D911K	JEC-20D911KJ	550	745	910(819~1001)	100	1500	6500	10000	310	510	1.0	440
JEC-20D102K	JEC-20D102KJ	625	825	1000(900~1100)	100	1650	6500	10000	342	565	1.0	400
JEC-20D112K	JEC-20D112KJ	680	895	1100(990~1210)	100	1815	6500	10000	383	620	1.0	360
JEC-20D122K	JEC-20D122KJ	750	990	1200(1080~132)	100	1980	6500	10000	408	660	1.0	350
JEC-20D142K	JEC-20D142KJ	880	1140	1400(1260~154)	100	2310	6500	10000	532	784	1.0	340
JEC-20D162K	JEC-20D162KJ	1000	1280	1600(1400~176)	100	2640	6500	10000	606	896	1.0	330
JEC-20D182K	JEC-20D182KJ	1100	1465	1800(1620~198)	100	2970	6500	10000	625	990	1.0	320

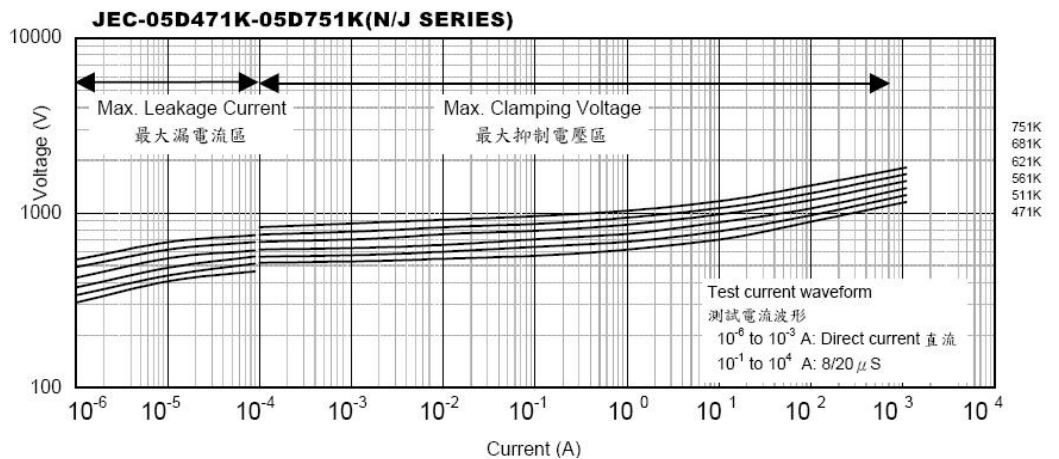
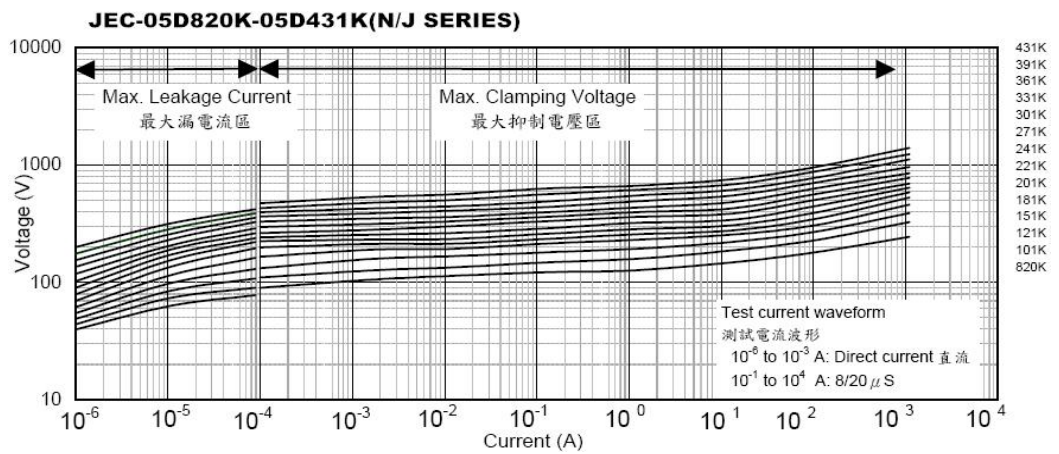
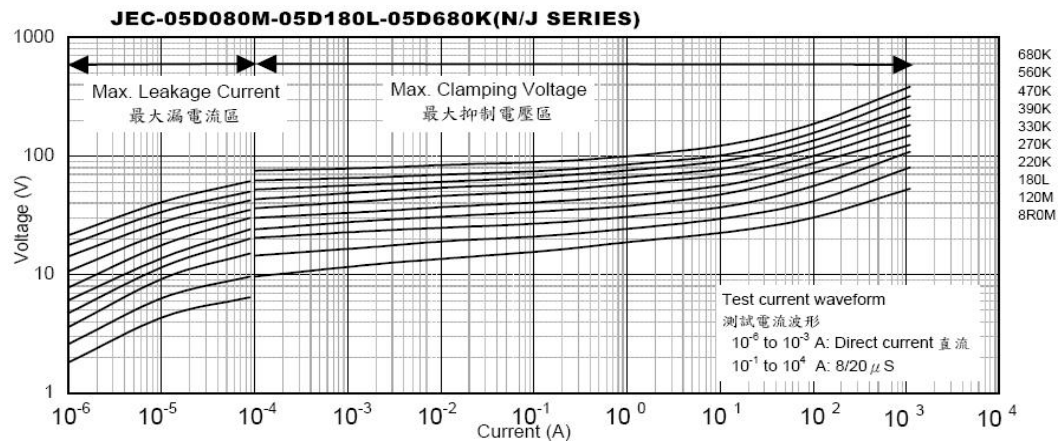
25D Standard & High Surge

产品型号 Part Number		最大允许回路电压 Maximum Allowable Voltage		压敏电压 Varistor Voltage	最大限制电压 Maximum Clamping Voltage		最大峰值电流 8/20 μS Withstanding Surge Current		能量/耐量 Energy 10/1000μS		最大额定电压 Rated Power	电容量 (参考值) Typical Capacitance (Reference)
标准系列 Standard	高焦尔 High Surge	AC (V)	DC (V)	V1mA(V)	IP(A)	VC(V)	标准系列 I(A) Standard	高焦尔 I(A) High Surge	标准系列 (J) Standard	高焦尔 (J) High Surge	(W)	@1KJzPF
JEC-25D180L	JEC-25D180LJ	11	14	18(15.3~20.7)	30	36	4500	8000	20	24	0.25	45000
JEC-25D220K	JEC-25D220KJ	14	18	22(19.8~24.2)	30	43	4500	8000	25	30	0.25	29000
JEC-25D270K	JEC-25D270KJ	17	22	27(24.3~29.7)	30	53	4500	8000	30	36	0.25	26500
JEC-25D330K	JEC-25D330KJ	20	26	33(29.7~36.3)	30	65	4500	8000	35	42	0.25	18000
JEC-25D390K	JEC-25D390KJ	25	31	39(35.1~42.9)	30	77	4500	8000	40	48	0.25	13500
JEC-25D470K	JEC-25D470KJ	30	38	47(42.3~51.7)	30	93	4500	8000	50	60	0.25	11500
JEC-25D560K	JEC-25D560KJ	35	45	56(50.4~61.6)	30	110	4500	8000	60	72	0.25	10500
JEC-25D680K	JEC-25D680KJ	40	56	68(61.2~74.8)	30	135	4500	8000	70	84	0.25	9050
JEC-25D820K	JEC-25D820KJ	50	65	82(73.8~90.2)	150	135	15000	20000	80	96	1.2	7700
JEC-25D101K	JEC-25D101KJ	60	85	100(90~110)	150	165	15000	20000	100	120	1.2	6300
JEC-25D121K	JEC-25D121KJ	75	100	120(108~132)	150	200	15000	20000	120	144	1.2	5200
JEC-25D151K	JEC-25D151KJ	95	125	150(135~165)	150	250	15000	20000	160	192	1.2	4300
JEC-25D181K	JEC-25D181KJ	115	150	180(162~198)	150	300	15000	20000	175	210	1.2	3500
JEC-25D201K	JEC-25D201KJ	130	170	200(185~225)	150	330	15000	20000	190	228	1.2	3200
JEC-25D221K	JEC-25D221KJ	140	180	220(198~242)	150	360	15000	20000	200	240	1.2	2900
JEC-25D241K	JEC-25D241KJ	150	200	240(216~264)	150	395	15000	20000	220	264	1.2	2650
JEC-25D271K	JEC-25D271KJ	175	225	270(243~297)	150	455	15000	20000	255	306	1.2	2400
JEC-25D301K	JEC-25D301KJ	190	250	300(270~330)	150	505	15000	20000	275	330	1.2	2100
JEC-25D331K	JEC-25D331KJ	210	275	330(297~363)	150	550	15000	20000	300	360	1.2	1900
JEC-25D361K	JEC-25D361KJ	230	300	360(324~396)	150	595	15000	20000	330	396	1.2	1750
JEC-25D391K	JEC-25D391KJ	250	320	390(351~429)	150	650	15000	20000	360	432	1.2	1600
JEC-25D431K	JEC-25D431KJ	275	350	430(387~473)	150	710	15000	20000	380	456	1.2	1500
JEC-25D471K	JEC-25D471KJ	300	385	470(423~517)	150	775	15000	20000	400	480	1.2	1400
JEC-25D511K	JEC-25D511KJ	320	415	510(459~561)	150	845	15000	20000	420	504	1.2	1250
JEC-25D561K	JEC-25D561KJ	350	460	560(504~616)	150	920	15000	20000	440	528	1.2	1150
JEC-25D621K	JEC-25D621KJ	385	505	620(558~682)	150	1025	15000	20000	450	540	1.2	1050
JEC-25D681K	JEC-25D681KJ	420	560	680(612~748)	150	1120	15000	20000	460	552	1.2	950
JEC-25D751K	JEC-25D751KJ	460	615	750(675~825)	150	1240	15000	20000	510	612	1.2	850
JEC-25D781K	JEC-25D781KJ	485	640	780(702~858)	150	1290	15000	20000	530	636	1.2	850
JEC-25D821K	JEC-25D821KJ	510	670	820(738~902)	150	1355	15000	20000	570	684	1.2	500
JEC-25D911K	JEC-25D911KJ	550	745	910(819~1001)	150	1500	15000	20000	620	744	1.2	700
JEC-25D102K	JEC-25D102KJ	625	825	1000(900~1100)	150	1650	15000	20000	685	822	1.2	650
JEC-25D112K	JEC-25D112KJ	680	895	1100(990~1210)	150	1815	15000	20000	720	864	1.2	600
JEC-25D122K	JEC-25D122KJ	750	990	1200(1080~1320)	150	1980	15000	20000	795	954	1.2	550
JEC-25D142K	JEC-25D142KJ	880	1140	1400(1260~1540)	150	2310	15000	20000	850	1020	1.2	500
JEC-25D162K	JEC-25D162KJ	1000	1280	1600(1400~1760)	150	2640	15000	20000	970	1164	1.2	450
JEC-25D182K	JEC-25D182KJ	1100	1465	1800(1620~1980)	150	2970	15000	20000	1092	1310	1.2	400

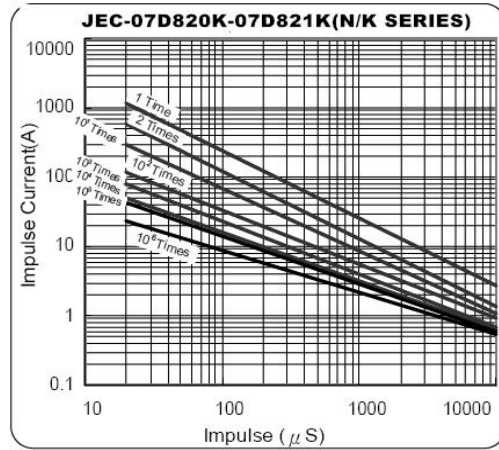
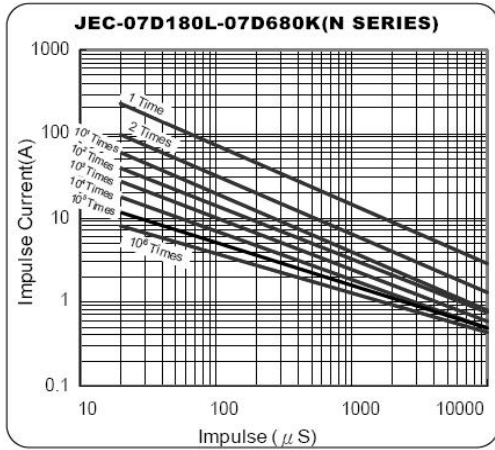
05D Surge Life Time Ratings N (Standard) / K (Low Capacitance) Series



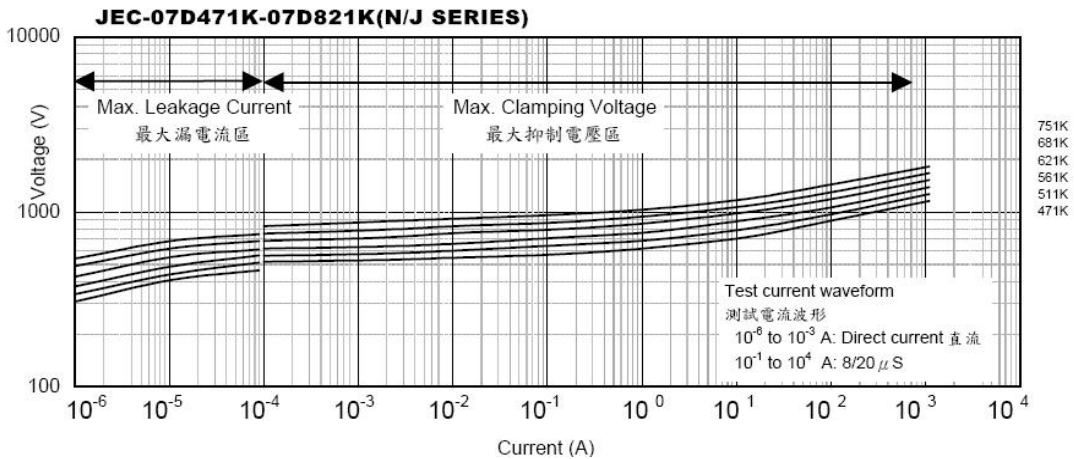
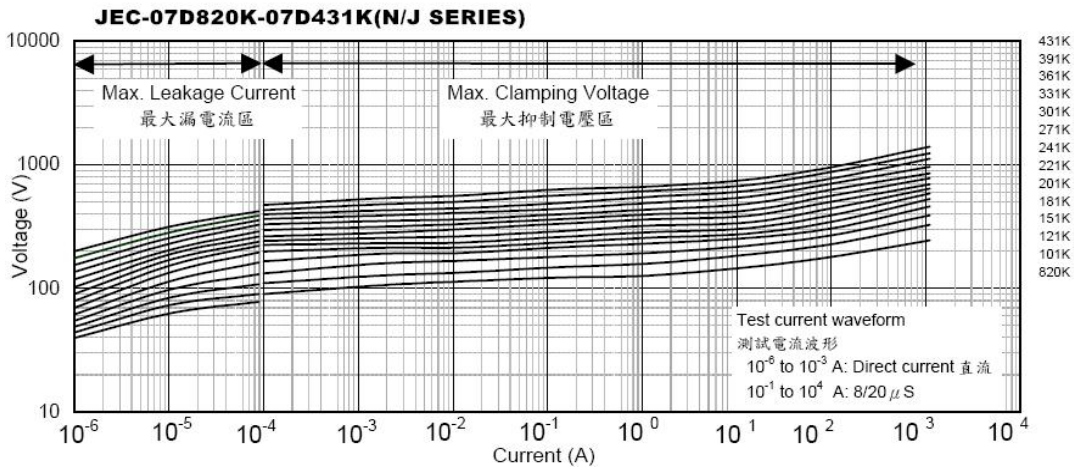
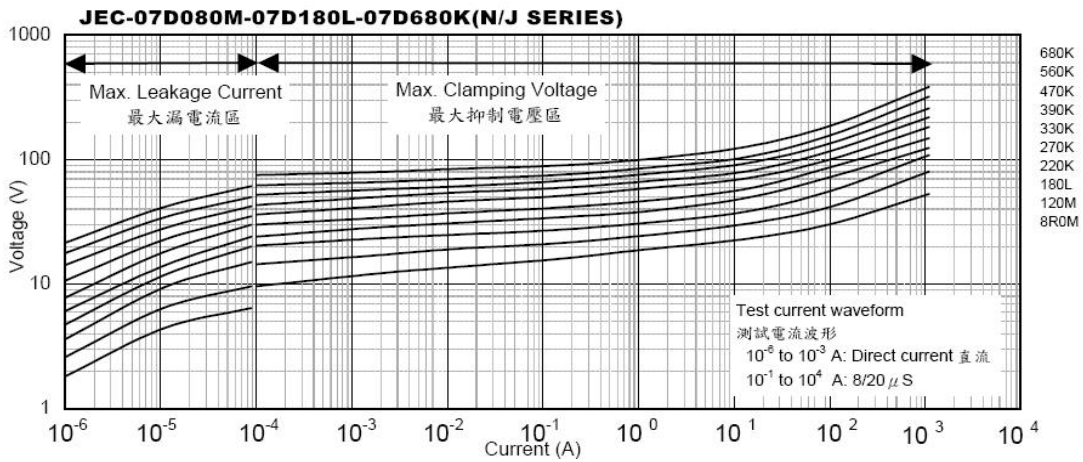
05D V-I CURVE



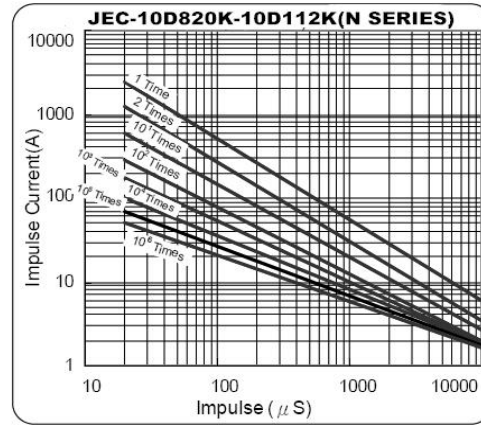
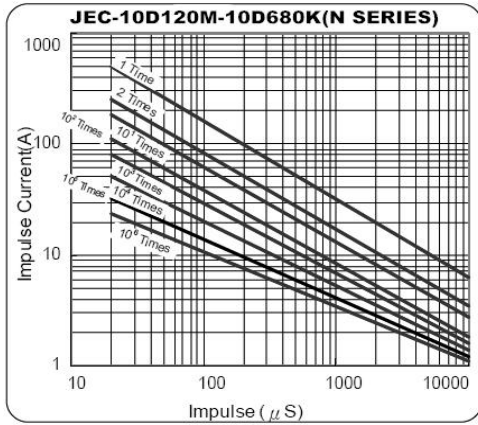
07D Surge Life Time Ratings N (Standard) / K (Low Capacitance) Series



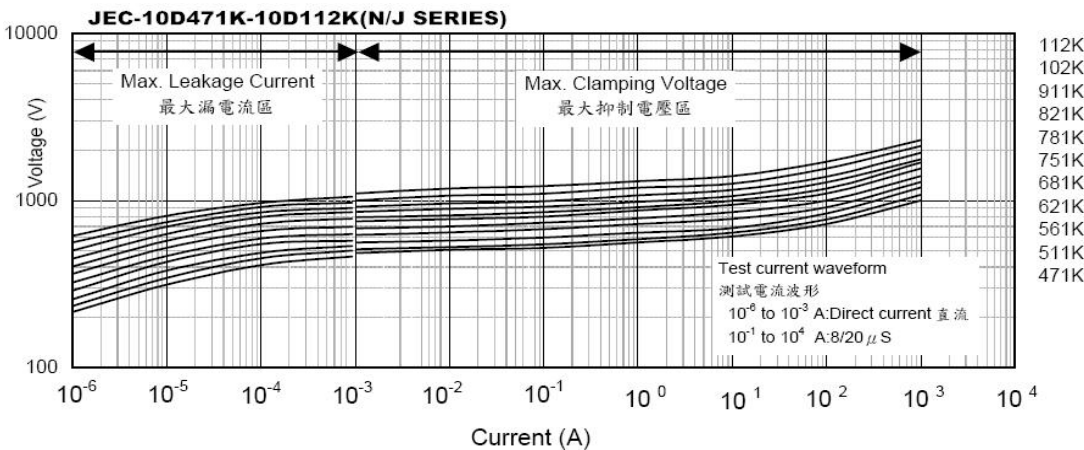
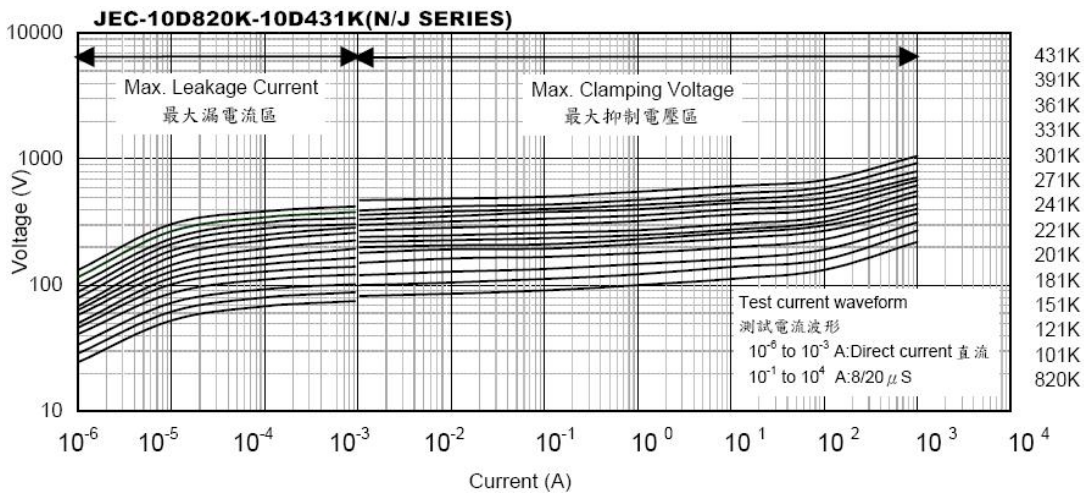
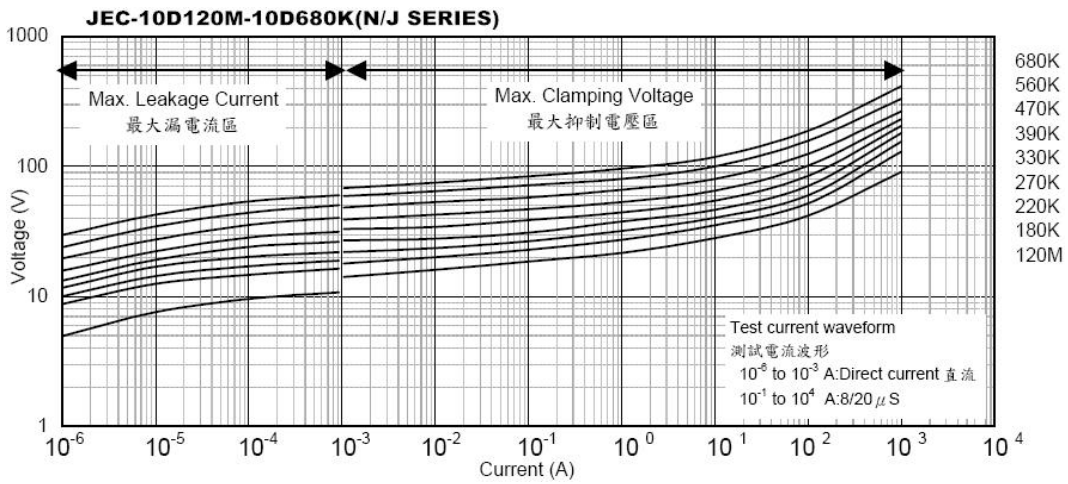
07D V-I CURVE



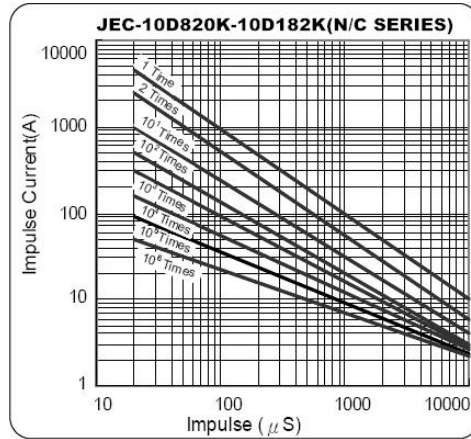
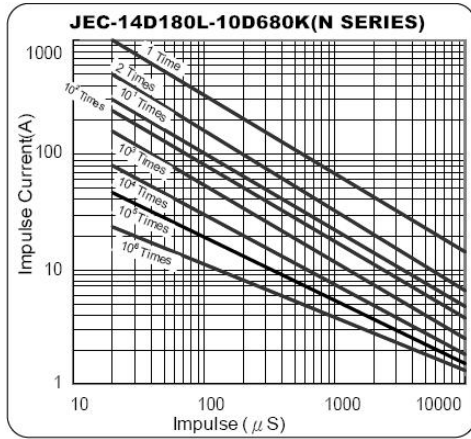
10D Surge Life Time Ratings N (Standard) / K (Low Capacitance) Series



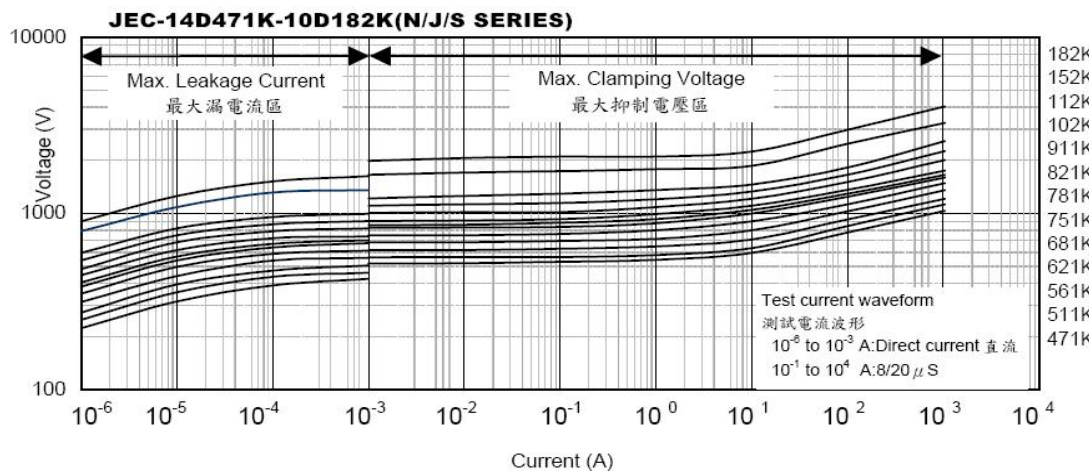
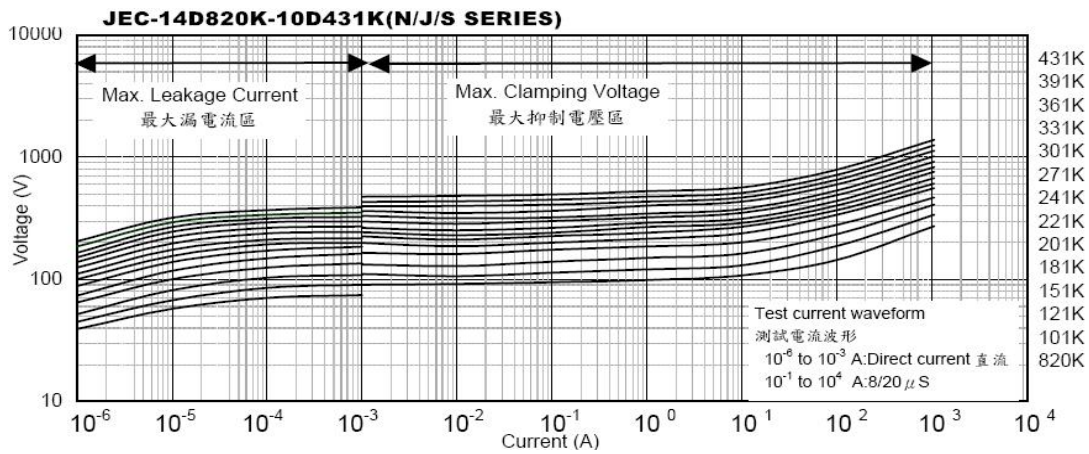
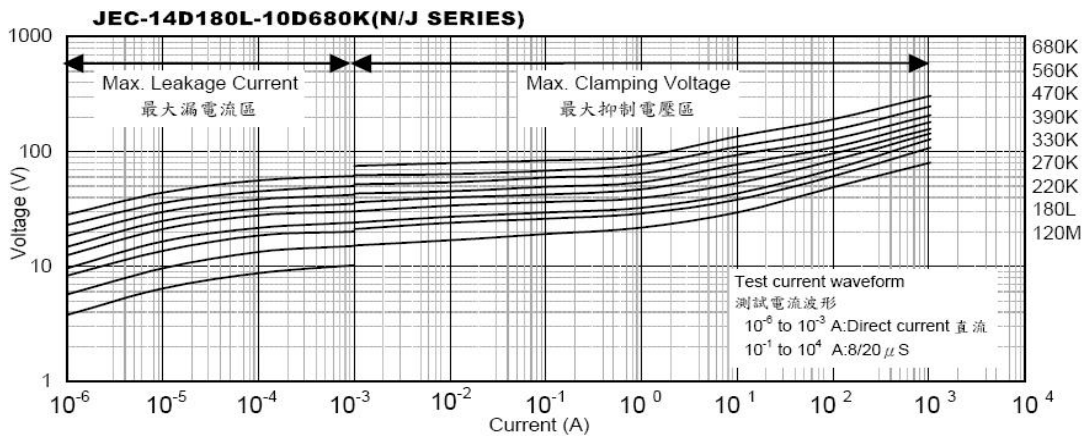
10D V-I CURVE



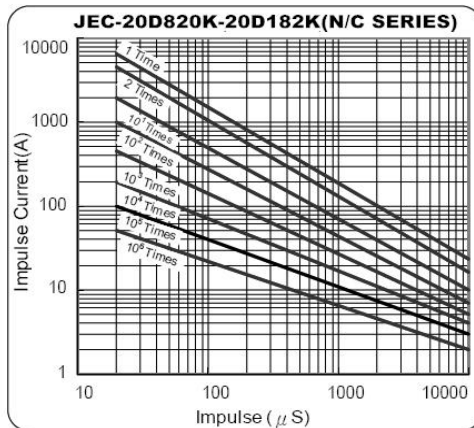
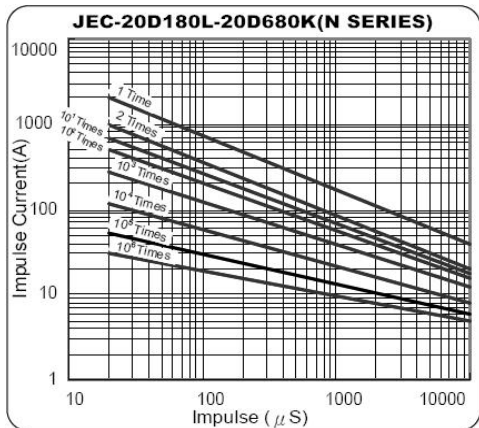
14D Surge Life Time Ratings N (Standard) / K (Low Capacitance) Series



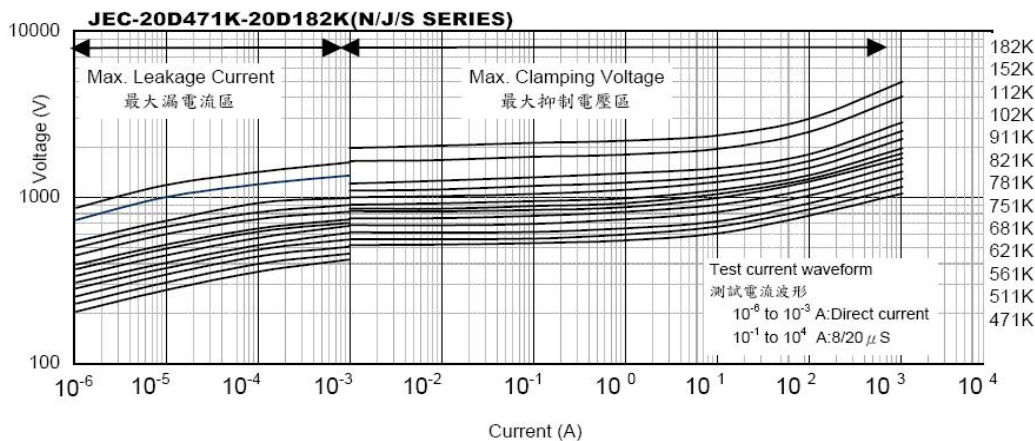
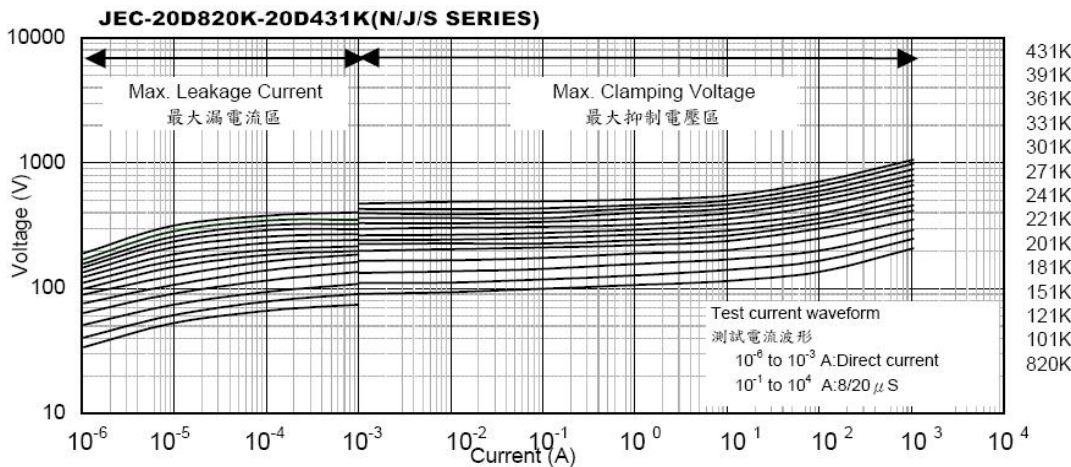
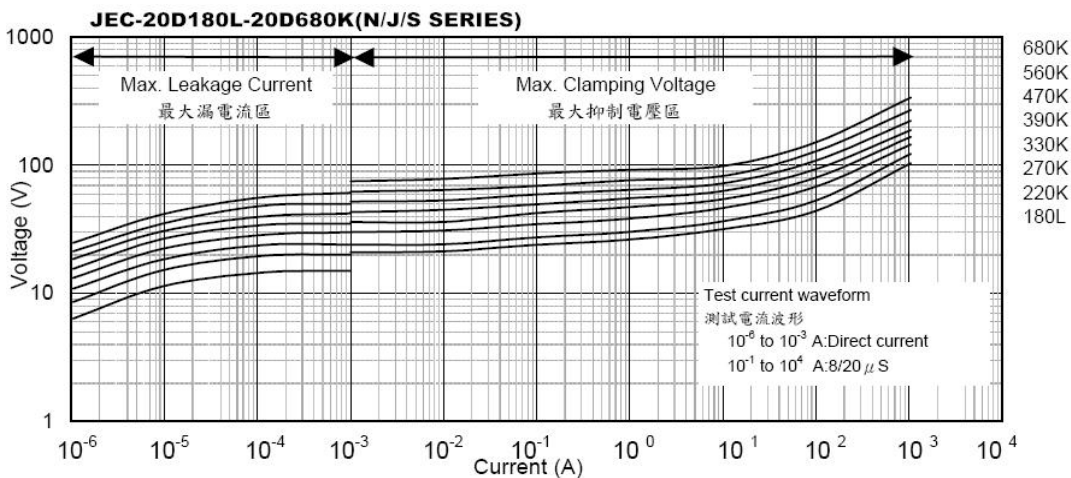
14D V-I CURVE



20D Surge Life Time Ratings N (Standard) / K (Low Capacitance) Series






20D V-I CURVE



05D Approval Standard And File Number



07D Approval Standard And File Number



Certified Model No.	UL E486000	 40044685	CQC 190012551485
JEC-05D180L	YES	YES	YES
JEC-05D220K	YES	YES	YES
JEC-05D270K	YES	YES	YES
JEC-05D330K	YES	YES	YES
JEC-05D390K	YES	YES	YES
JEC-05D470K	YES	YES	YES
JEC-05D560K	YES	YES	YES
JEC-05D680K	YES	YES	YES
JEC-05D820K	YES	YES	YES
JEC-05D101K	YES	YES	YES
JEC-05D121K	YES	YES	YES
JEC-05D151K	YES	YES	YES
JEC-05D181K	YES	YES	YES
JEC-05D201K	YES	YES	YES
JEC-05D221K	YES	YES	YES
JEC-05D241K	YES	YES	YES
JEC-05D271K	YES	YES	YES
JEC-05D301K	YES	YES	YES
JEC-05D331K	YES	YES	YES
JEC-05D361K	YES	YES	YES
JEC-05D391K	YES	YES	YES
JEC-05D431K	YES	YES	YES
JEC-05D471K	YES	YES	YES
JEC-05D511K	YES		YES
JEC-05D561K	YES		YES
JEC-05D621K	YES		YES
JEC-05D681K	YES		YES
JEC-05D751K	/		
JEC-05D821K	/		

Certified Model No.	 UL, CUL E486000	 40044685	UL E486000	CQC 19001221471
JEC-07D180L	YES	YES		YES
JEC-07D220K	YES	YES		YES
JEC-07D270K	YES	YES		YES
JEC-07D330K	YES	YES		YES
JEC-07D390K	YES	YES		YES
JEC-07D470K	YES	YES		YES
JEC-07D560K	YES	YES		YES
JEC-07D680K	YES	YES		YES
JEC-07D820K	YES	YES		YES
JEC-07D101K	YES	YES		YES
JEC-07D121K	YES	YES		YES
JEC-07D151K	YES	YES		YES
JEC-07D181K	YES	YES		YES
JEC-07D201K	YES	YES		YES
JEC-07D221K	YES	YES		YES
JEC-07D241K	YES	YES		YES
JEC-07D271K	YES	YES		YES
JEC-07D301K	YES	YES		YES
JEC-07D331K	YES	YES		YES
JEC-07D361K	YES	YES		YES
JEC-07D391K	YES	YES		YES
JEC-07D431K	YES	YES		YES
JEC-07D471K	YES	YES		YES
JEC-07D511K	YES	YES		YES
JEC-07D561K	YES	YES		YES
JEC-07D621K	YES	/		YES
JEC-07D681K	YES	/		YES
JEC-07D751K	/	/	YES	YES
JEC-07D821K	/	/	YES	YES

10D Approval Standard And File Number



14D Approval Standard And File Number

Certified Model No.	 UL, CUL E486000	 VDE 40044685	CQC 19001221472
JEC-10D180L	YES	YES	YES
JEC-10D220K	YES	YES	YES
JEC-10D270K	YES	YES	YES
JEC-10D330K	YES	YES	YES
JEC-10D390K	YES	YES	YES
JEC-10D470K	YES	YES	YES
JEC-10D560K	YES	YES	YES
JEC-10D680K	YES	YES	YES
JEC-10D820K	YES	YES	YES
JEC-10D101K	YES	YES	YES
JEC-10D121K	YES	YES	YES
JEC-10D151K	YES	YES	YES
JEC-10D181K	YES	YES	YES
JEC-10D201K	YES	YES	YES
JEC-10D221K	YES	YES	YES
JEC-10D241K	YES	YES	YES
JEC-10D271K	YES	YES	YES
JEC-10D301K	YES	YES	YES
JEC-10D331K	YES	YES	YES
JEC-10D361K	YES	YES	YES
JEC-10D391K	YES	YES	YES
JEC-10D431K	YES	YES 3KA/6KV	YES
JEC-10D471K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-10D511K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-10D561K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-10D621K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-10D681K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-10D751K	YES	YES 3KA/6KV	YES
JEC-10D821K	YES	YES 3KA/6KV	YES
JEC-10D911K	YES	YES 3KA/6KV	YES
JEC-10D102K	YES	YES 3KA/6KV	YES
JEC-10D112K	YES	YES 3KA/6KV	YES

Certified Model No.	 UL, CUL E486000	 VDE 40044685	CQC 19001221473
JEC-14D180L	YES	/	YES
JEC-14D220K	YES	/	YES
JEC-14D270K	YES	YES	YES
JEC-14D330K	YES	YES	YES
JEC-14D390K	YES	YES	YES
JEC-14D470K	YES	YES	YES
JEC-14D560K	YES	YES	YES
JEC-14D680K	YES	YES	YES
JEC-14D820K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D101K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D121K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D151K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D181K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D201K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D221K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D241K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D271K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D301K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D331K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D361K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D391K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D431K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D471K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D511K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D561K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D621K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D681K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D751K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-14D821K	YES 3KA/6KV	/	YES
JEC-14D911K	YES 3KA/6KV	/	YES
JEC-14D102K	YES	/	YES
JEC-14D112K	YES	/	YES
JEC-14D152K	YES	/	YES
JEC-14D182K	YES	/	YES

20D Approval Standard And File Number

25D Approval Standard And File Number

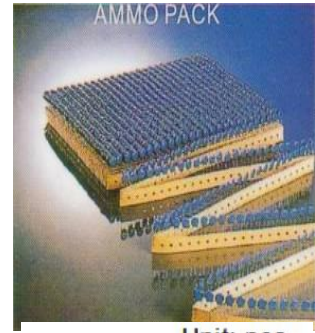
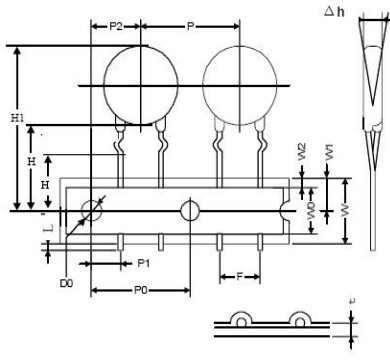
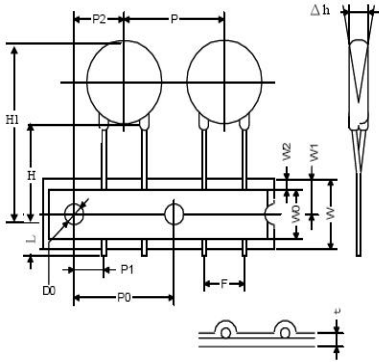
Certified Model No.	 UL, CUL E486000	 40044685	CQC 19001221470
JEC-20D180L	YES	/	YES
JEC-20D220K	YES	/	YES
JEC-20D270K	YES	YES	YES
JEC-20D330K	YES	YES	YES
JEC-20D390K	YES	YES	YES
JEC-20D470K	YES	YES	YES
JEC-20D560K	YES	YES	YES
JEC-20D680K	YES	YES	YES
JEC-20D820K	YES	YES 3KA/6KV	YES
JEC-20D101K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D121K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D151K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D181K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D201K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D221K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D241K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D271K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D301K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D331K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D361K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D391K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D431K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D471K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D511K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D561K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D621K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D681K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D751K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D821K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D911K	YES 3KA/6KV	YES 3KA/6KV	YES
JEC-20D102K	YES	/	YES
JEC-20D112K	YES	/	YES
JEC-20D152K	YES	/	YES
JEC-20D182K	YES	/	YES

Certified Model No.	UL E486000	CQC 19001221474
JEC-25D180L	/	YES
JEC-25D220K	/	YES
JEC-25D270K	/	YES
JEC-25D330K	/	YES
JEC-25D390K	/	YES
JEC-25D470K	/	YES
JEC-25D560K	/	YES
JEC-25D680K	/	YES
JEC-25D820K	/	YES
JEC-25D101K	/	YES
JEC-25D121K	/	YES
JEC-25D151K	/	YES
JEC-25D181K	/	YES
JEC-25D201K	YES	YES
JEC-25D221K	YES	YES
JEC-25D241K	YES	YES
JEC-25D271K	YES	YES
JEC-25D301K	YES	YES
JEC-25D331K	YES	YES
JEC-25D361K	YES	YES
JEC-25D391K	YES	YES
JEC-25D431K	YES	YES
JEC-25D471K	YES	YES
JEC-25D511K	YES	YES
JEC-25D561K	YES	YES
JEC-25D621K	YES	YES
JEC-25D681K	YES	YES
JEC-25D751K	YES	YES
JEC-25D781K	YES	YES
JEC-25D821K	YES	YES
JEC-25D911K	YES	YES
JEC-25D102K	/	YES
JEC-25D112K	/	YES
JEC-25D122K	/	YES
JEC-25D142K	/	YES
JEC-25D162K	/	YES
JEC-25D182K	/	YES

Dimension - TA / TR / CA / CR Ammo & Reel Series

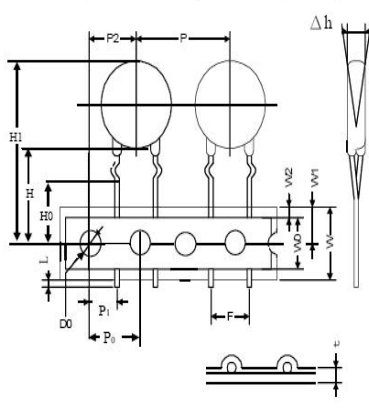
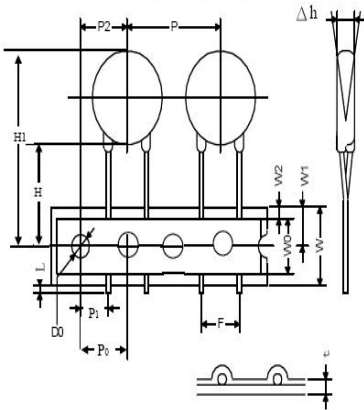
Straight Leads (5D,7D,10D)

Crimped Leads (5D,7D,10D)



Straight Leads (10D,14D,20D)

Crimped Leads (10D,14D,20D)



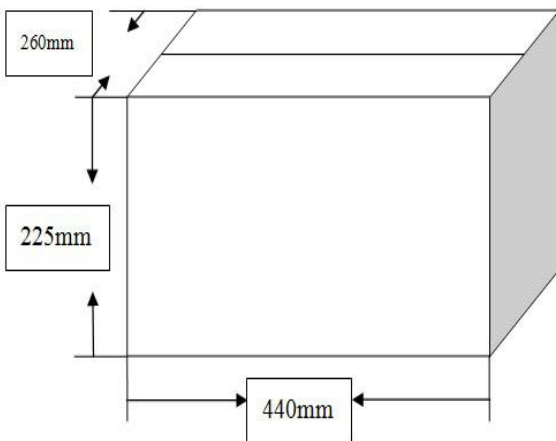
Unit: pcs

Ammo	
Box	Carton
2000	10000
1500	7500
2000	10000
1500	7500
500	5000
500	5000
500	5000
400	2800
300	2100

P	P0	P1	P2	F	W	W0	W1
12.7±1.0	12.7±0.3	3.85±0.7	6.35±1.3	5.0±0.5	18.0±1.0	12.5max.	9.0±0.5
W2	H	H0	H1	Δh	L	D0	t
3.0max.	20.0±2.0	16.0±1.0	32.0max	0±2	1.0max.	4.0±0.2	0.6±0.3

Packing Specifications /Bulk Packing Dimension /Quantity per Packing Method

Quality Per Packing Method



Dimension	Part No.	Ammo	
		Box	Carton
05D	180L to 561K	1,500	15,000
07D			
05D	621k to 821K	1,300	13,000
07D			
10D	180L to 471K	1,000	10,000
	511k to 821K	800	8000
14D	180L to 471K	1,000	10,000
	511k to 821K	800	8,000
20D	180L to 471K	500	5,000
	511k to 821K	300	5,000

存储条件:

1. 储存温度: -10°C~+40°C
2. 相对湿度: ≦75%RH
3. 不要将本产品存放在有腐蚀性气体或是阳光直接照射的环境中保管。

存储期限: 1 年

Reliability Test

Mechanical Ratings

Test Parameter	Test Condition / Description			Performance
Terminal Pull Strength	After gradually applying the load specified below and keeping the unit fixed for ten seconds, the terminal shall be visually examined for any damage.	Diameter	Loading	No visible damage
		0.6mm	1.0 Kg	
		0.8mm	1.0 Kg	
		1.0mm	2.0 Kg	
Terminal Bending Strength	The unit shall be secured with its terminal kept vertical and the weight specified below be applied in the axial direction. The terminal shall gradually be bent by 90° in one direction, then 90° in the opposite direction, and again back to the original position. The damage of the terminal shall be visually examined.	Diameter	Loading	No visible damage
		0.6mm	0.5 Kg	
		0.8mm	0.5 Kg	
		1.0mm	1.0 Kg	
Vibration	The Specimen shall be vibrated by its lead wires with a total amplitude of 1.5 mm and a varying frequency of 10~55~10HZ(each minutes) for a period of 2 hours respectively in each X,Yand Z directions.			No visible damage $\Delta VB/VB\% \leq \pm 5\%$
Soldering-solderability	After dipping the terminal to depth of approximately 3 mm from the specimen in a soldering bath of 260°C for 10±1(D5: 5±1) seconds. Thereafter the terminal shall be visually examined.			Terminations shall be uniformly tinned
Soldering- Resistance to Solder Heat	After preheating the specimen, the specimen shall be completely immersed into a soldering bath having a temperature of 260±5°C for 10±1 (D5: 5±1) seconds or iron of 400±5°C for 3±0.5 seconds. There after the change of Vb and mechanical damage shall be examined.			No visible damage $\Delta VB/VB\% \leq \pm 5\%$

ENVIRONMENTAL

Dry Heat Loading	The specimen shall be applied continuously the maximum allowable voltage at the specified conditions for specified period and then stored at room temperature and normal humidity over 2 hours. Thereafter, the change of Vb and mechanical damage shall be examined. Ambient temp : 125±2°C ; Period : 1000±24hours.			$\Delta VB/VB\% \leq \pm 10\%$	
High Temperature Storage	In a drying oven without load. Ambient temp : 125±2°C ; period : 1000±24hours			$\Delta VB/VB\% \leq \pm 5\%$	
Damp Heat Loading	The specimen shall be applied continuously the maximum allowable voltage at the specified conditions for specified period and then stored at room temperature and normal humidity over 2 hours. Thereafter, the change of Vb and mechanical damage shall be examined. Ambient condition : 40±2°C , 90 to 95%R.H. ; period : 1000±24 hours			$\Delta VB/VB\% \leq \pm 10\%$	
Temperature Cycle	Condition the specimen to each temperature form step 1 to step 4 in this order for the period shown in the table of specifications. The change of Vb and mechanical damage shall be examined after 2 hours.	Step	Temp°C	Period	No visible damage $\Delta VB/VB\% \leq \pm 10\%$
		1	-40±3°C	30 min.	
		2	Room Temp	15 min.	
		3	85±2°C	30 min.	
4	Room Temp	15 min.			
Surge Lifetime Rating	The change of Vb shall be measured after the impulse listed below is applied 10,000 times continuously with the interval of ten seconds at room temperature.			No visible damage $\Delta VB/VB\% \leq \pm 10\%$	
Voltage Proof	Voltage: 2500VAC Leakage Current ≤ 0.5mA Time: 60 Seconds			No Breakdown	

编号	项目	性能要求	说明及测试方法
环境特性	1.1	气候顺序 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC 68-2-4, 试验 Db 干热: (125±2°C)×16hrs, 循环湿热: 一个循环(55±2°C)×24hrs、95~100%RH 寒冷: (-40±2°C)×2hrs, 循环湿热: 一次(55±2°C)×24hrs、95~100%RH、 剩余的循环 5 次, 24hrs/循环。
	1.2	稳态湿热 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC68-2-3 温度/时间: (40±2°C)/500hrs、湿度: 90~95%RH。
	1.3	温度快速变化 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC 68-2-14, 试验 Na TA=-40°C, TB=+125°C ; 共五个循环, 每个极限温度下放置 30 分钟。
	1.4	上限类别温度 耐久性 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 10\%$ 无明显机械损伤	IEC 68-2-2 温度: 125°C±2°C、时间: 1000hrs。 电压: 最大持续工作电压(交流)。
	1.5	湿热环境耐 久性 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 10\%$ 无明显机械损伤	IEC68-2-3 温度: 125°C±2°C、时间: 500hrs、湿度: 90~95%RH。 电压: 最大持续工作电压(交流)。
机械特性	2.1	振动 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC68-2-6, 试验 Fc 方法 B4 总持续时间: 6hrs(三个方向, 每方向各 2hrs)。 频率范围: 10 Hz~55 Hz、振幅: 0.75mm 或加速度 98 m/s ²
	2.2	冲击 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC 68-2-27, Test Ea 脉冲波形: 半正弦波、加速度: 490m/s ² 脉冲宽度: 11ms, 三个方向, 每方向各 6 次。
	2.3	可焊性 浸渍部分的 95% 被焊锡覆盖	IEC 68-2-20, 试验 Ta 方法 1 槽温: 235±5°C 浸渍时间: 2±0.5sec
	2.4	耐焊接热 无明显机械损伤	IEC 68-2-20, 试验 Tb 方法 1A 锡温: 260°C、持续时间: 5sec
	2.5	引出端强度 $\frac{\Delta U_{1mA}}{U_{1mA}} \leq \pm 5\%$ 无明显机械损伤	IEC68-2-21, 试验 Ua 拉伸—力量: 10 N(ø 0.6 和 ø 0.8mm 引线) 、20N(ø 1.0mm 引线)持续时间:10 sec. 弯折—力量: 5 N(ø 0.6 和 ø 0.8mm 引线)、10N(ø 1.0mm 引线)弯折次数: 2 次
总体特性	3.1	使用温度范围 (-40°C ~ +125°C)	压敏电阻无须降额使用的温度范围
	3.2	贮存温度范围 (-40°C ~ +150°C)	压敏电阻无负载情况下
	3.3	绝缘耐压 ≥2500VAC	压敏电阻的电极引线与其包封层表面之间, 1 min。

使用须知

为避免因 MOV 而引起的火灾或劣化而导致其它设备的损坏, 请参考并遵守以下原则:

1) 当压敏电阻器流入高电流或高电压时, MOV 本身可能被损坏、升温、冒烟、着火并发生爆裂。

为避免此种情况, 可在 MOV 两端或电源两端安装保险丝或断路器;

以下规格之保险丝仅供参考使用:

直径	05D	07D	10D	14D	20D
保险丝之额定电流	1-2A	2-3A	3-5A	3-10A	5-15A

2) 勿使压敏电阻器所流入的电流及能量超过其额定值.

3) 注明的 VDR 产品商标名称和标记皆为本公司专利申请。

使用或销售未明确指定用于此类应用的 VDR 产品的客户自行承担风险。

4) 所有 VDR 产品、产品规格和数据如有更改, 恕不另行通知, 请予以改进。对任何数据表或任何其他数据表中 . 包含的任何错误. 不准确或不完整概不负责。

5) 关于产品对特定应用的适用性。客户有责任确认具有产品规范中所述特性的产品适用于特定应用。参数数据表和/或规范中提供的数据可能因不同的应用而不同, 性能可能随时间而变化。所有操作参数, 包括典型参数, 必须由客户的技术专家。产品规格不会扩大或以其他方式修改 VDR 采购条款和条件, 包括但不限于其中所述的保证。

6) 请勿将易燃性物质置于压敏电阻器附近.

7) 压敏电阻器仅可散发少量的热能, 因此不适合用于经常有突发热量产生的设备内.

此外, 压敏电阻器所在的工作环境越高其所散发热能的比例就越小.

压敏电阻器仅可散发少量的热能, 因此不适合用于经常有突发热量产生的设备内.

如在瞬时间有较大的热量作用于压敏电阻上, 有可能因此热能不能在脉冲时间内散发出去而导致压敏电阻器损坏.

8) 焊接时, 请注意不要将压敏电阻器的焊接点及树脂涂料被融化.

材料类别政策

VDR 所有产品特此证明皆符合 RoHS 的产品均符合欧洲议会和理事会指令 2011/65/EU 中定义和限制 2011 年 6 月 8 日关于限制在电气和电子设备中使用某些有害物质 (Reach) 的规定。我们确认所有 VDR 产品符合 IEC 61249-2-21 JEDEC JS709A 标准。