

CNR 14P 突波吸收器

Device Ratings and Characteristics

元件的額定值與特性

Part No. 型號	Maximum Allowable Voltage 最大容許電壓		Varistor Voltage 突波吸收器動作電壓 (@1mA)			Maximum Clamping Voltage 抑制電壓 @ Test Current (8/20μs)		Maximum Energy 最大吸收 能量 (J)	Maximum Peak Current 最大電流耐量 (8/20μs)	Rated Power 消耗 功率	Typical Capacitance 參考電容值 (@1KHz)	Standards 安規
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	Ip (A)	8/20μs	(A)	(W)	(pF)	
CNR-14P201K	130	175	185	200	225	340	50	96.0	7000	0.6	770	☆※◎
CNR-14P221K	140	180	198	220	242	360	50	104.0	7000	0.6	740	☆※◎
CNR-14P241K	150	200	216	240	264	395	50	112.0	7000	0.6	700	☆※◎
CNR-14P271K	180	230	247	270	303	455	50	120.0	7000	0.6	640	☆※◎
CNR-14P301K	195	250	270	300	330	500	50	136.0	7000	0.6	600	☆※◎
CNR-14P331K	210	275	297	330	363	540	50	152.0	7000	0.6	580	☆※◎
CNR-14P361K	230	300	324	360	396	595	50	164.0	7000	0.6	540	☆※◎
CNR-14P391K	250	320	351	390	429	650	50	176.0	7000	0.6	500	☆※◎
CNR-14P431K	275	350	387	430	473	710	50	200.0	7000	0.6	450	☆※◎
CNR-14P471K	300	385	423	470	517	775	50	220.0	7000	0.6	400	☆※◎
CNR-14P511K	320	420	459	510	561	845	50	240.0	7000	0.6	350	☆※◎
CNR-14P561K	350	460	504	560	616	915	50	250.0	7000	0.6	350	☆◎
CNR-14P621K	385	505	558	620	682	1025	50	270.0	7000	0.6	330	☆◎
CNR-14P681K	420	560	612	680	748	1120	50	300.0	7000	0.6	320	☆◎
CNR-14P751K	460	615	675	750	825	1240	50	330.0	7000	0.6	300	☆◎
CNR-14P781K	485	640	702	780	858	1290	50	350.0	7000	0.6	300	☆◎
CNR-14P821K	510	675	738	820	902	1355	50	360.0	7000	0.6	270	☆◎
CNR-14P911K	550	745	819	910	1001	1500	50	390.0	7000	0.6	260	☆◎
CNR-14P102K	625	825	900	1000	1100	1650	50	450.0	7000	0.6	250	☆◎
CNR-14P112K	680	895	990	1100	1210	1815	50	500.0	7000	0.6	240	☆◎

Related Standards

安規說明

Standard No. 安規號碼	UL 1414	UL 1449 (3rd Edition)	CSA	VDE
Title 名稱	Across-The-Line Components	Surge Protective Device	Accessories and Parts for Electronic Products	Varistors for use in Electronic equipment
File No. 文件號碼	E165143	E316325	LR109736-1	21557-4790-001
Symbols 符號	△	☆	※	◎

RoHS

CNR 18P 突波吸收器

Device Ratings and Characteristics

元件的額定值與特性

Part No. 型號	Maximum Allowable Voltage 最大容許電壓		Varistor Voltage 突波吸收器動作電壓 (@1mA)			Maximum Clamping Voltage 抑制電壓 @ Test Current (8/20μs)		Maximum Energy 最大吸收 能量 (J)	Maximum Peak Current 最大 電流耐量 (8/20μs)	Rated Power 消耗 功率	Typical Capacitance 參考電容值 (@1KHz)	Standards 安規
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	Ip (A)	8/20μs	(A)	(W)	(pF)	
CNR-18P201K	130	175	185	200	225	340	75	153.0	12000	1.0	1350	☆※◎
CNR-18P221K	140	180	198	220	242	360	75	164.0	12000	1.0	1290	☆※◎
CNR-18P241K	150	200	216	240	264	395	75	180.0	12000	1.0	1200	☆※◎
CNR-18P271K	180	230	247	270	303	455	75	212.0	12000	1.0	1100	☆※◎
CNR-18P301K	195	250	270	300	330	500	75	224.0	12000	1.0	1030	☆※◎
CNR-18P331K	210	275	297	330	363	545	75	244.0	12000	1.0	1000	☆※◎
CNR-18P361K	230	300	324	360	396	595	75	268.0	12000	1.0	930	☆※◎
CNR-18P391K	250	320	351	390	429	650	75	296.0	12000	1.0	870	☆※◎
CNR-18P431K	275	350	387	430	473	710	75	328.0	12000	1.0	780	☆※◎
CNR-18P471K	300	385	423	470	517	775	75	348.0	12000	1.0	710	☆※◎
CNR-18P511K	320	420	459	510	561	845	75	384.0	12000	1.0	630	☆※◎
CNR-18P561K	350	460	504	560	616	915	75	410.0	12000	1.0	620	☆◎
CNR-18P621K	385	505	558	620	682	1025	75	450.0	12000	1.0	600	☆◎
CNR-18P681K	420	560	612	680	748	1120	75	500.0	12000	1.0	580	☆◎
CNR-18P751K	460	615	675	750	825	1240	75	530.0	12000	1.0	550	☆◎
CNR-18P781K	485	640	702	780	858	1290	75	550.0	12000	1.0	480	☆◎
CNR-18P821K	510	675	738	820	902	1355	75	580.0	12000	1.0	460	☆◎
CNR-18P911K	550	745	819	910	1001	1500	75	630.0	12000	1.0	450	☆◎
CNR-18P102K	625	825	900	1000	1100	1650	75	700.0	12000	1.0	430	☆◎
CNR-18P112K	680	895	990	1100	1210	1815	75	750.0	12000	1.0	410	☆◎

Related Standards

安規說明

Standard No. 安規號碼	UL 1414	UL 1449 (3rd Edition)	CSA	VDE
Title 名稱	Across-The-Line Components	Surge Protective Device	Accessories and Parts for Electronic Products	Varistors for use in Electronic equipment
File No. 文件號碼	E165143	E316325	LR109736-1	21557-4790-001
Symbols 符號	△	☆	※	◎

RoHS

CNR 20P 突波吸收器

Device Ratings and Characteristics

元件的額定值與特性

Part No. 型號	Maximum Allowable Voltage 最大容許電壓		Varistor Voltage 突波吸收器動作電壓 (@1mA)			Maximum Clamping Voltage 抑制電壓 @ Test Current (8/20μs)		Maximum Energy 最大吸收 能量 (J)	Maximum Peak Current 最大電流耐量 (8/20μs)	Rated Power 消耗 功率	Typical Capacitance 參考電容值 (@1KHz)	Standards 安規
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	Ip (A)	8/20μs	(A)	(W)	(pF)	
CNR-20P201K	130	175	185	200	225	340	100	192.0	15000	1.0	1700	☆ ※
CNR-20P221K	140	180	198	220	242	360	100	204.0	15000	1.0	1600	☆ ※
CNR-20P241K	150	200	216	240	264	395	100	224.0	15000	1.0	1500	☆ ※
CNR-20P271K	180	230	247	270	303	455	100	264.0	15000	1.0	1300	☆ ※
CNR-20P301K	195	250	270	300	330	500	100	280.0	15000	1.0	1200	☆ ※
CNR-20P331K	210	275	297	330	363	545	100	304.0	15000	1.0	1100	☆ ※
CNR-20P361K	230	300	324	360	396	595	100	336.0	15000	1.0	1100	☆ ※
CNR-20P391K	250	320	351	390	429	650	100	368.0	15000	1.0	1100	☆ ※
CNR-20P431K	275	350	387	430	473	710	100	408.0	15000	1.0	1000	☆ ※
CNR-20P471K	300	385	423	470	517	775	100	432.0	15000	1.0	900	☆ ※
CNR-20P511K	320	420	459	510	561	845	100	480.0	15000	1.0	800	☆ ※
CNR-20P561K	350	460	504	560	616	915	100	510.0	15000	1.0	750	☆
CNR-20P621K	385	505	558	620	682	1025	100	560.0	15000	1.0	700	☆
CNR-20P681K	420	560	612	680	748	1120	100	620.0	15000	1.0	700	☆
CNR-20P751K	460	615	675	750	825	1240	100	680.0	15000	1.0	670	☆
CNR-20P781K	485	640	702	780	858	1290	100	700.0	15000	1.0	670	☆
CNR-20P821K	510	675	738	820	902	1355	100	750.0	15000	1.0	650	☆
CNR-20P911K	550	745	819	910	1001	1500	100	830.0	15000	1.0	630	☆
CNR-20P102K	625	825	900	1000	1100	1650	100	915.0	15000	1.0	620	☆
CNR-20P112K	680	895	990	1100	1210	1815	100	1000.0	15000	1.0	610	☆

Related Standards

安規說明

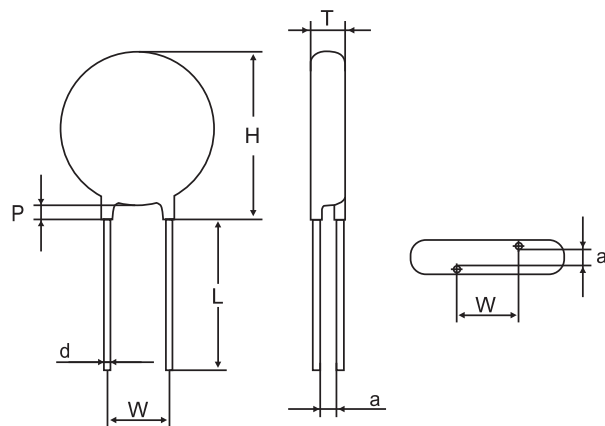
Standard No. 安規號碼	UL 1414	UL 1449 (3rd Edition)	CSA	VDE
Title 名稱	Across-The-Line Components	Surge Protective Device	Accessories and Parts for Electronic Products	Varistors for use in Electronic equipment
File No. 文件號碼	E165143	E316325	LR109736-1	21557-4790-001
Symbols 符號	△	☆	※	◎

RoHS

Dimension of Component for Standard Product 標準品之尺寸規格

Dimension Table Unit: mm

Model Symbol	14P	18P	20P
D(max.)	17.5	23.0	25.0
H(max.)	20.5	26.0	28.0
W(±1.0)	7.5	7.5	7.5/10.0
L(min)	3.0	3.0	3.0
d(±0.05)	0.80	0.80	0.8/1.0
	Cuorcp	Cuorcp	Cuorcp



T max. Table Unit: mm

Part No.	14P	18P	20P	^a (±0.4)
201	4.0	4.2	4.3	1.0
221	4.1	4.3	4.4	1.1
241	4.2	4.4	4.5	1.2
271	4.3	4.5	4.6	1.3
301	4.4	4.6	4.7	1.4
331	4.6	4.8	4.9	1.5
361	4.8	5.0	5.1	1.6
391	4.9	5.1	5.2	1.8
431	5.1	5.3	5.4	1.9
471	5.3	5.5	5.6	2.0

Part No.	14P	18P	20P	^a (±0.4)
511	5.4	5.6	5.7	2.1
561	5.6	5.8	5.9	2.3
621	5.8	6.0	6.1	2.6
681	5.9	6.1	6.2	2.8
751	6.1	6.3	6.4	3.1
781	6.4	6.6	6.7	3.3
821	6.6	6.8	6.9	3.5
911	6.7	6.9	7.0	3.8
102	7.1	7.3	7.4	4.1
112	7.5	7.7	7.9	4.7

Impulse Life Time Rating Curves 額定脈衝壽命次數曲線

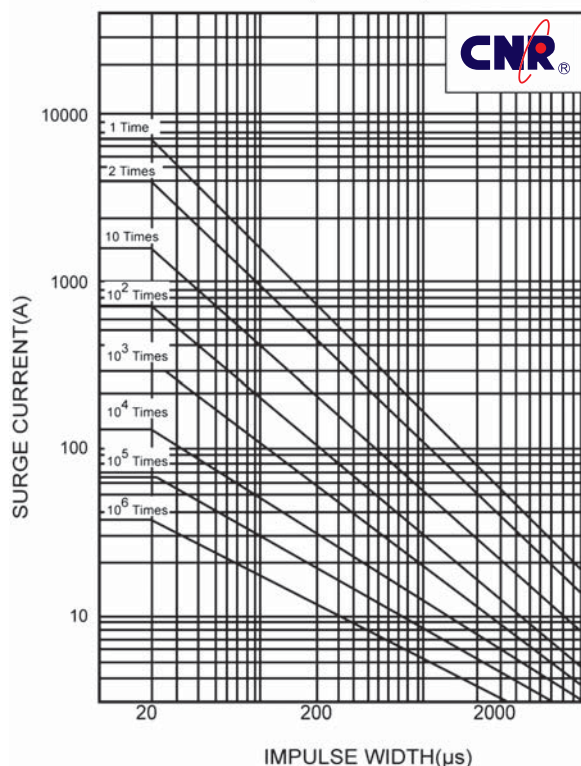
2 times: 5 minutes interval

up to 10 times: 2 minutes interval

up to 10^6 times 10 seconds interval

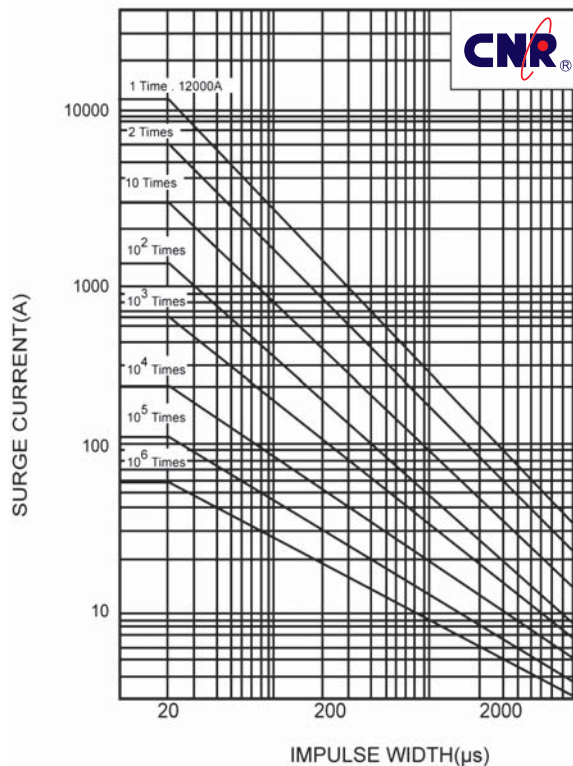
14P Series

CNR 14P(201K~511K)



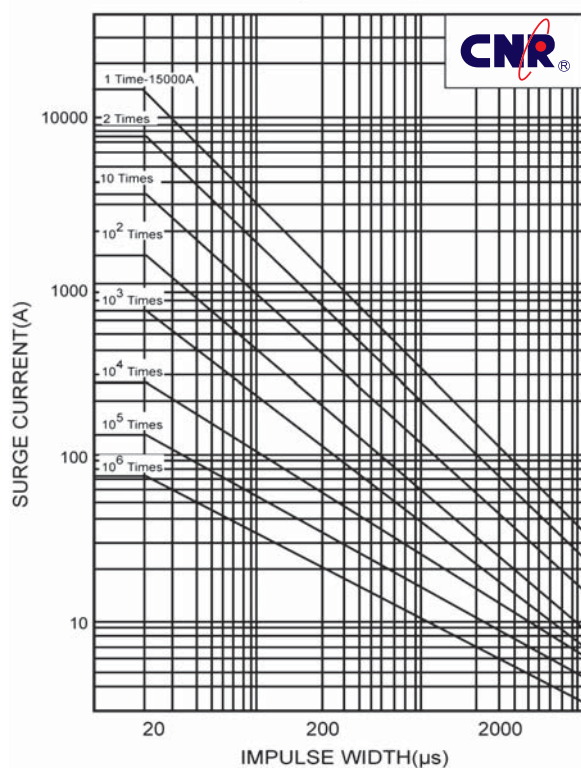
18P Series

CNR 18P(201K~511K)

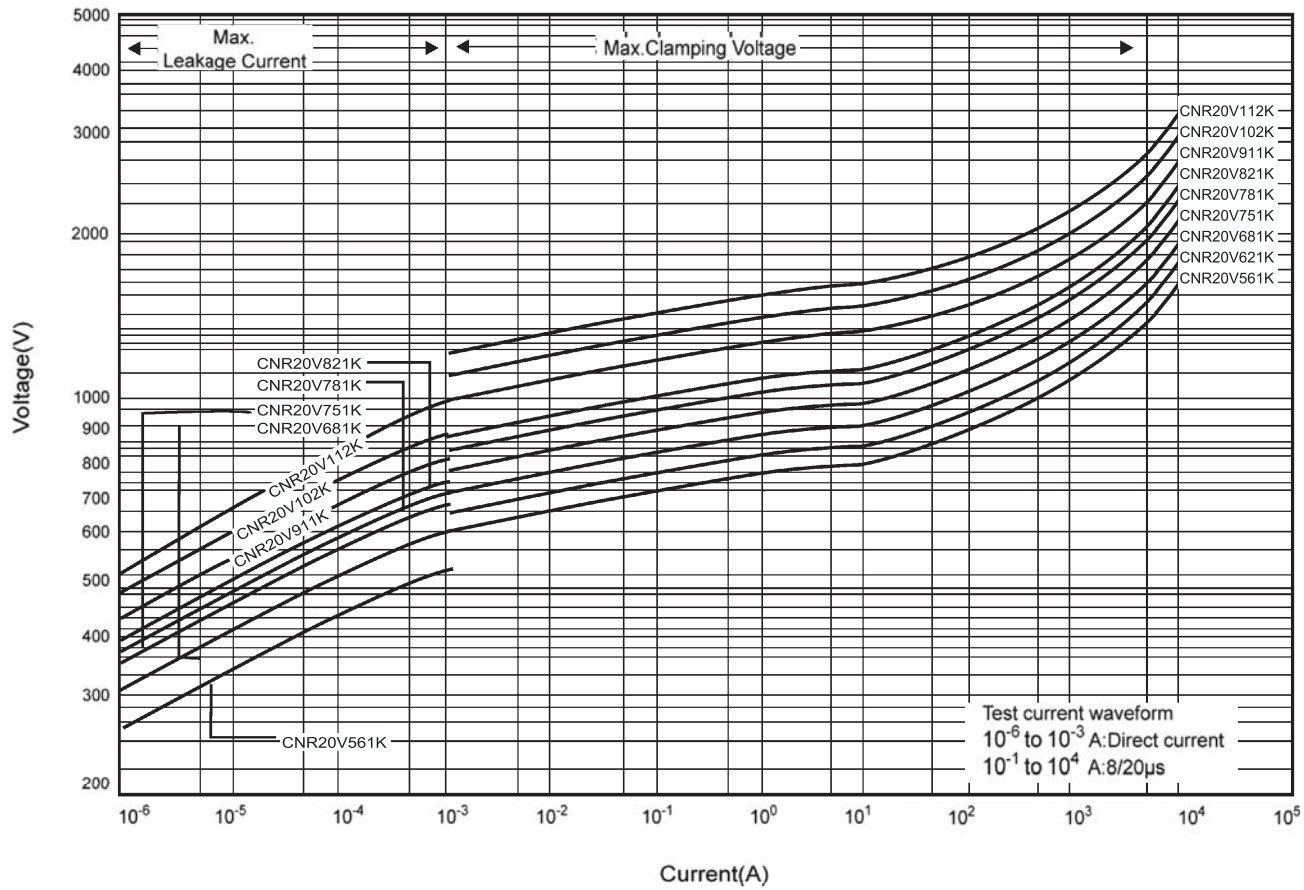


20P Series

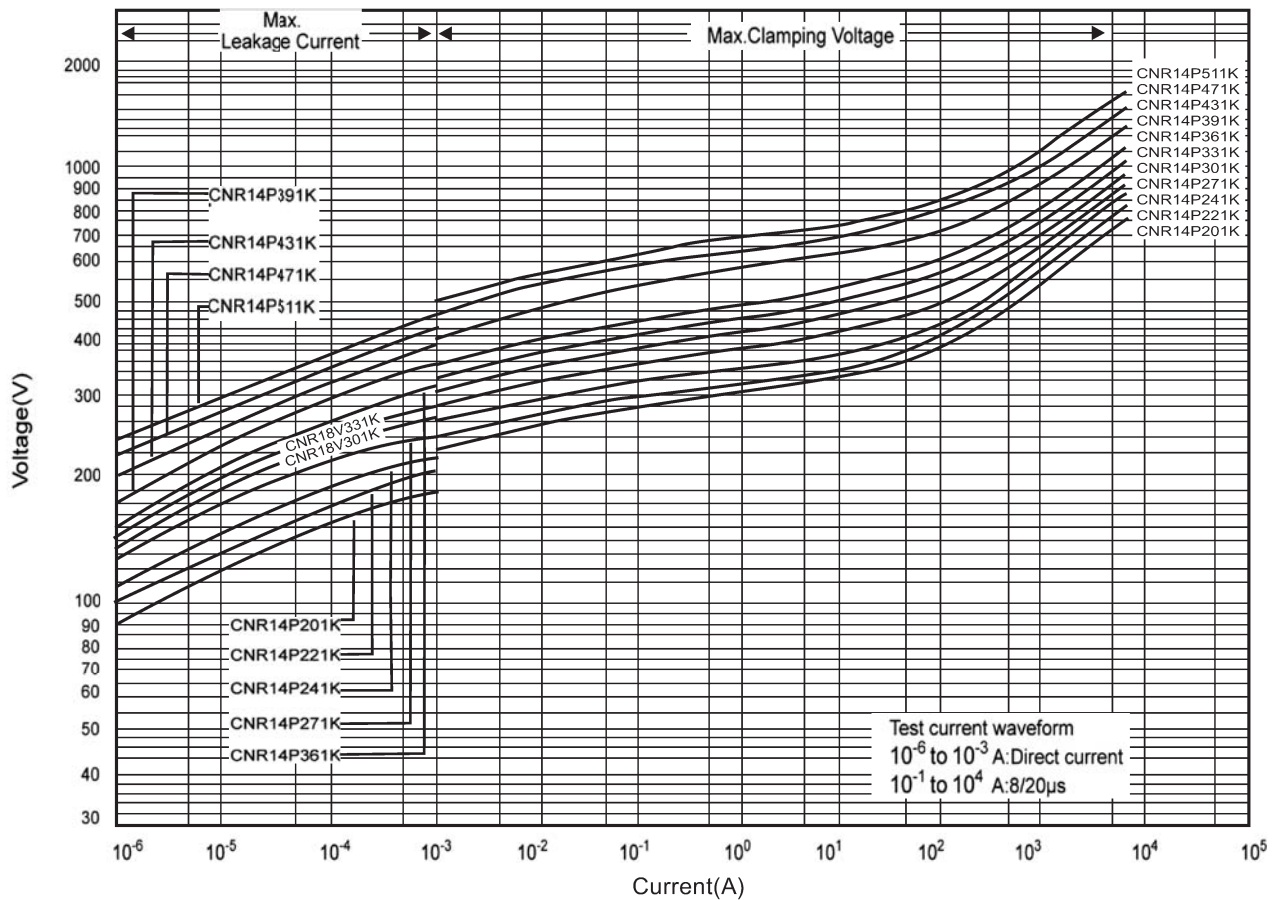
CNR 20P(201K~511K)



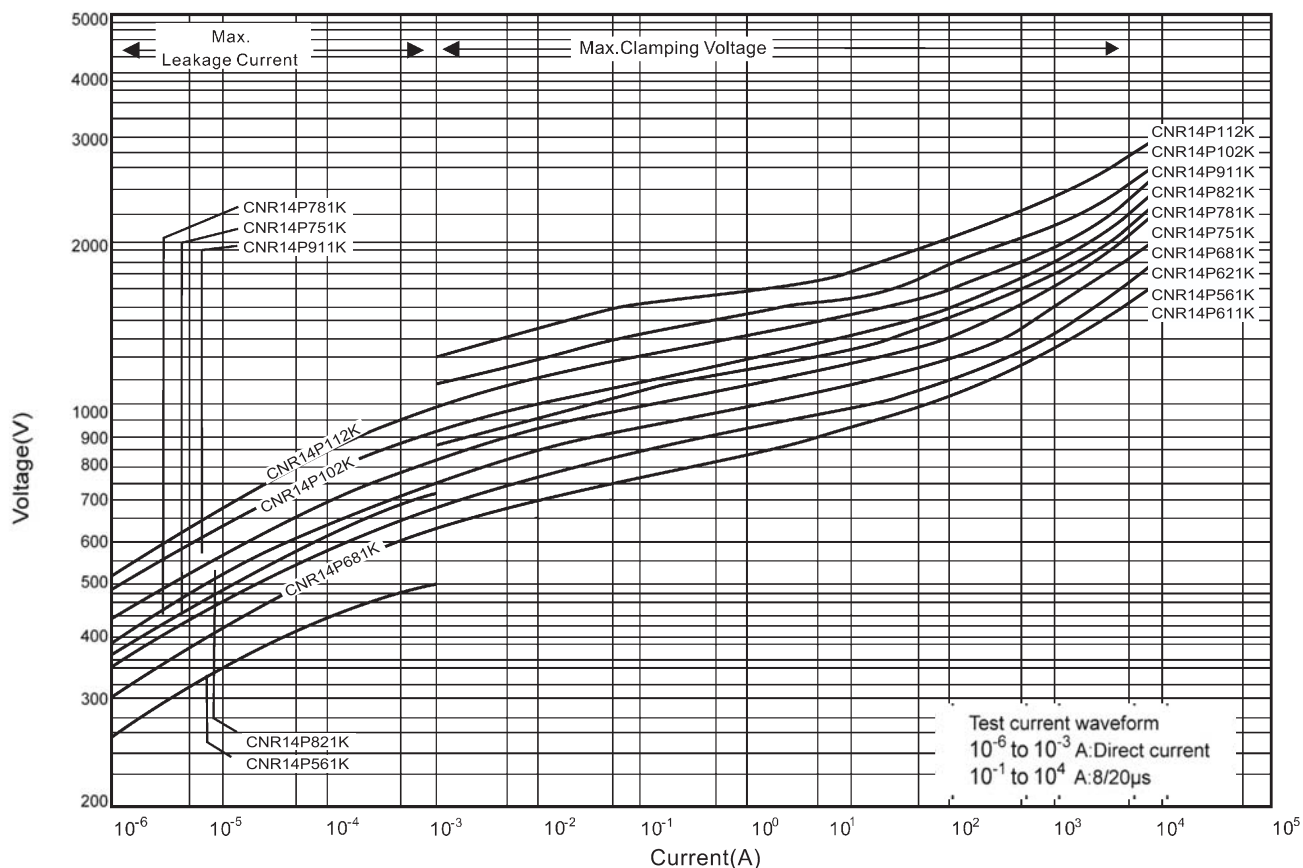
V-I Curve CNR20V561K to CNR20V112K 電壓-電流特性曲線



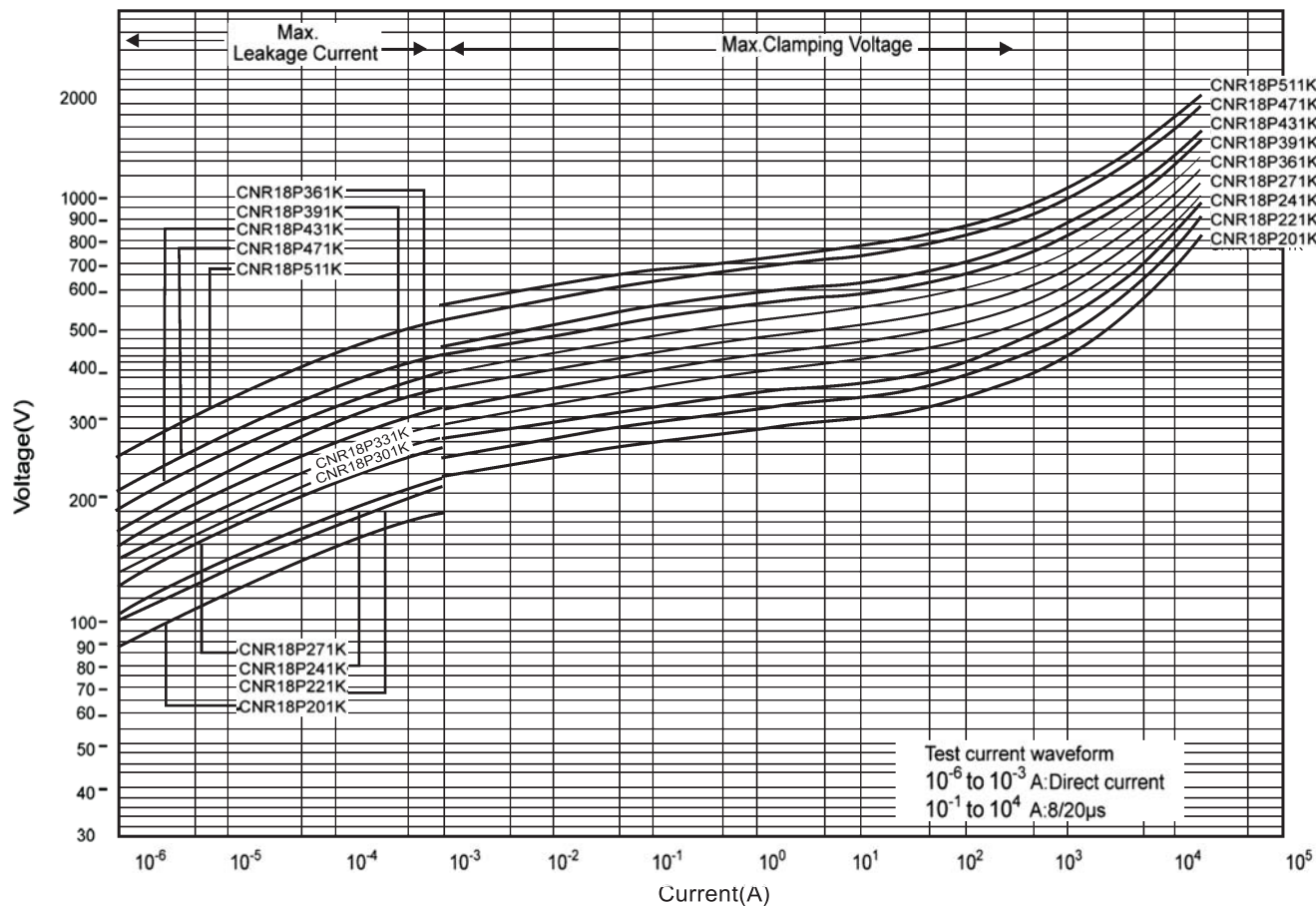
V-I Curve CNR14P201K to CNR14P511K 電壓-電流特性曲線



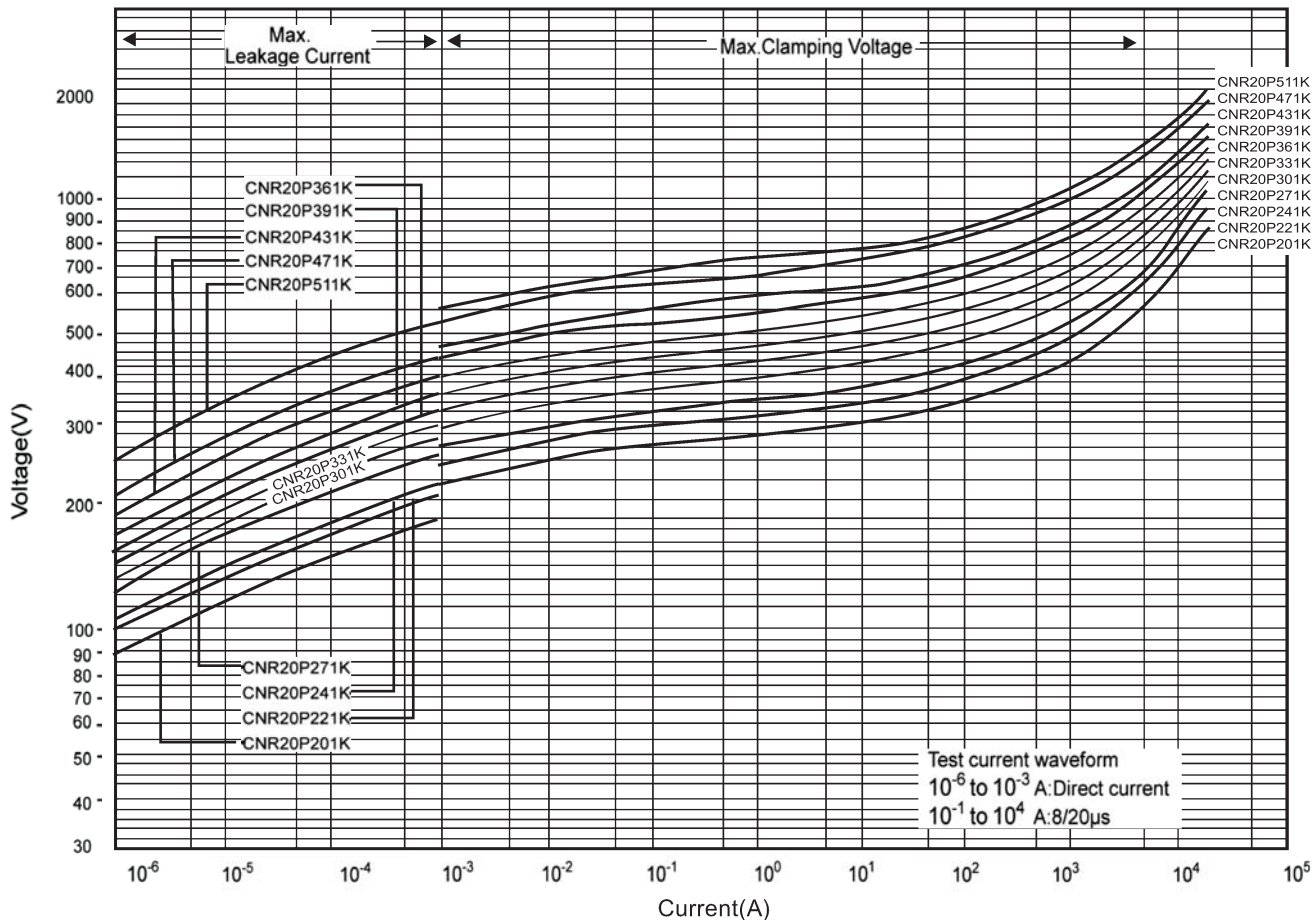
V-I Curve CNR14P561K to CNR14P112K 電壓-電流特性曲線



V-I Curve CNR18P201K to CNR18P511K 電壓-電流特性曲線



CNR電涌保護器 (SPD)



V-I Curve CNR20P561K to CNR20P112K 電壓-電流特性曲線

