

(Varistor Type MYG20)

MYG20型压敏电阻器是以氧化锌为主要原料制造的半导体陶瓷元件，其电阻值随施加电压的变化而呈非线性变化。具有体积小、通流量大等特点。

Type MYG20 Varistors are made of semiconductor ceramic materials composed mainly of zinc oxides. They have non-linear resistance that changes as a function of applied voltage. This type has smaller size yet relatively high current capacity.

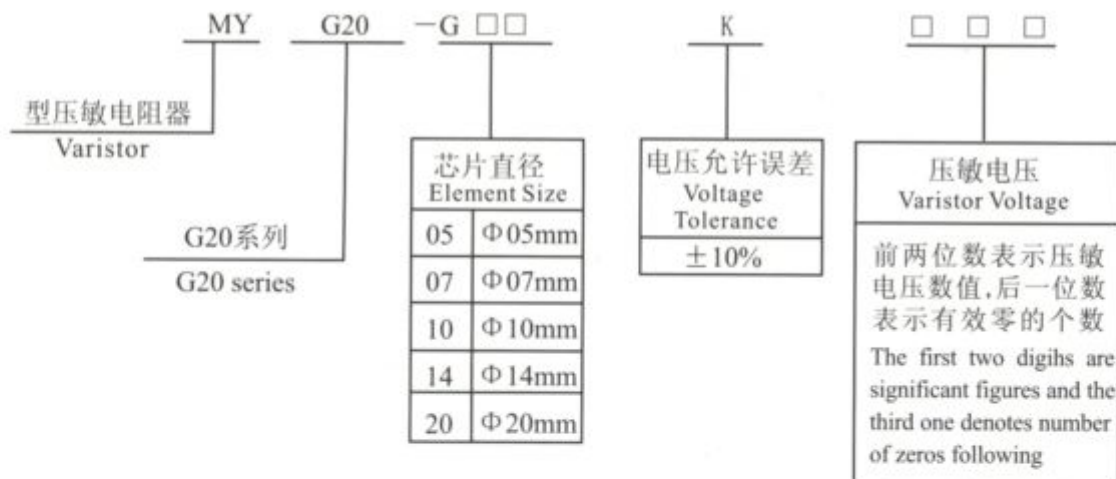
1. 特性 (Features)

- 电压范围宽 (18V~1800V) Varistor voltage (18V~1800V)
- 非线性系数大 Excellent non-linearity voltage
- 通流容量大 Great withstanding surge current
- 响应时间快($\leq 50\text{ns}$) Fast response time($\leq 50\text{ns}$)

2. 主要用途 (Recommended Applications)

- 半导体器件保护 Protection of semiconductors
- 家用电器浪涌过电压保护 Surge protection of consumer equipment
- 通信、测量、控制仪器浪涌过电压保护 Surge protection of communication, measuring or controller instrument
- 电磁阀、继电器操作过电压保护 Relay or electromagnetic valve surge absorption

3. 命名方法 (Explanation of Part numbers)



4.产品规格及主要电参数 Specification and Electrical Characteristics of Product

型号 MODEL NO.	压敏电压 VARISTOR VOLTAGE	最大容许回路电压 MAX. CONTINUOUS VOLTAGE		最大限制电压 MAX. CLAMPING VOLTAGE		能量耐量 ENERGY (J)		最大通流容量 MAX. PEAK CURRENT 8/20 μ s (A)		最大静态功率 RATED POWER	电容量 (参考值) CAPACITANCE (REFERENCE) (1KHZ)
		V	Arms(V)	DC(V)	Vc(V)	Ip(A)	10/1000 μ s	2ms	Itime		
MYG20G05K180	18 (16~20)	11	14	40	1	0.6	0.4	250	125	0.01	1550
MYG20G07K180				36	2.5	1.1	0.9	500	250	0.02	3400
MYG20G10K180				36	5	2.6	2.2	1000	500	0.05	7300
MYG20G14K180				36	10	5.2	4.3	2000	1000	0.1	7000
MYG20G20K180				36	20	13	12	3000	2000	0.2	5000
MYG20G05K220	22 (20~24)	14	18	48	1	0.7	0.5	250	125	0.01	1250
MYG20G07K220				43	2.5	1.3	1.1	500	250	0.02	2700
MYG20G10K220				43	5	3.2	2.6	1000	500	0.05	5500
MYG20G14K220				43	10	6.3	5.3	2000	1000	0.1	14000
MYG20G20K220				43	20	16	14	3000	2000	0.2	29000
MYG20G05K270	27 (24~30)	17	22	60	1	0.9	0.7	250	125	0.01	1000
MYG20G07K270				53	2.5	1.6	1.3	500	250	0.02	1900
MYG20G10K270				53	5	3.9	3.2	1000	500	0.05	3900
MYG20G14K270				53	10	7.8	6.5	2000	1000	0.1	9500
MYG20G20K270				53	20	19	17	3000	2000	0.2	21000
MYG20G05K330	33 (30~36)	20	26	73	1	1.1	0.8	250	125	0.01	900
MYG20G07K330				65	2.5	2.0	1.6	500	250	0.02	1450
MYG20G10K330				65	5	4.8	4.0	1000	500	0.05	2900
MYG20G14K330				65	10	9.5	7.9	2000	1000	0.1	7200
MYG20G20K330				65	20	24	21	3000	2000	0.2	16000
MYG20G05K390	39 (35~43)	25	31	86	1	1.2	0.9	250	125	0.01	500
MYG20G07K390				77	2.5	2.4	1.9	500	250	0.02	1350
MYG20G10K390				77	5	5.6	4.7	1000	500	0.05	2600
MYG20G14K390				77	10	11	9.4	2000	1000	0.1	6400
MYG20G20K390				77	20	28	25	3000	2000	0.2	14000
MYG20G05K470	47 (42~52)	30	38	104	1	1.5	1.1	250	125	0.01	450
MYG20G07K470				93	2.5	2.8	2.3	500	250	0.02	1150
MYG20G10K470				93	5	6.8	5.6	1000	500	0.05	2100
MYG20G14K470				93	10	14	11	2000	1000	0.1	5200
MYG20G20K470				93	20	34	30	3000	2000	0.2	12500
MYG20G05K560	56 (50~62)	35	45	123	1	1.8	1.3	250	125	0.01	400
MYG20G07K560				110	2.5	3.4	2.7	500	250	0.02	940
MYG20G10K560				110	5	8.1	6.7	1000	500	0.05	1750
MYG20G14K560				110	10	16	13	2000	1000	0.1	4400
MYG20G20K560				110	20	41	36	3000	2000	0.2	10500
MYG20G05K680	68 (61~75)	40	56	150	1	2.2	1.6	250	125	0.01	350
MYG20G07K680				135	2.5	4.1	3.3	500	250	0.02	700
MYG20G10K680				135	5	9.8	8.2	1000	500	0.05	1300
MYG20G14K680				135	10	20	16	2000	1000	0.1	3300
MYG20G20K680				135	20	49	44	3000	2000	0.2	7000
MYG20G05K820	82 (74~90)	50	65	145	5	3.5	2.5	800	600	0.01	250
MYG20G07K820				135	10	7	5	1750	1250	0.02	550
MYG20G10K820				135	25	14	10	3500	2500	0.05	1800
MYG20G14K820				135	50	28	20	6000	5000	0.1	2900
MYG20G20K820				135	100	56	40	10000	7000	0.2	5500
MYG20G05K101	100 (90~110)	60	85	175	5	4.0	3.0	800	600	0.1	200
MYG20G07K101				165	10	8.5	6.0	1750	1250	0.25	500
MYG20G10K101				165	25	17	12	3500	2500	0.4	1400
MYG20G14K101				165	50	35	25	6000	5000	0.6	2400
MYG20G20K101				165	100	70	50	10000	7000	1.0	4700
MYG20G05K121	120 (108~132)	75	100	210	5	5.0	3.5	800	600	0.1	170
MYG20G07K121				200	10	10	7.0	1750	1250	0.25	450
MYG20G10K121				200	25	20	14.5	3500	2500	0.4	1100
MYG20G14K121				200	50	42	30	6000	5000	0.6	1900
MYG20G20K121				200	100	85	60	10000	7000	1.0	3800
MYG20G05K151	150 (135~165)	95	125	260	5	6.5	4.5	800	600	0.1	140
MYG20G07K151				250	10	13	9.0	1750	1250	0.25	350
MYG20G10K151				250	25	25	18	3500	2500	0.4	900
MYG20G14K151				250	50	53	37.5	6000	5000	0.6	1500
MYG20G20K151				250	100	106	75	10000	7000	1.0	3000

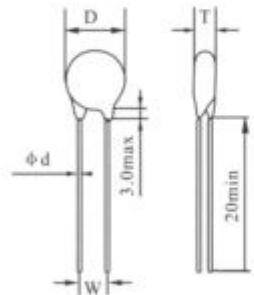
型号 MODEL NO.	压敏电压 VARISTOR VOLTAGE	最大容许回路电压 MAX. CONTINUOUS VOLTAGE		最大限制电压 MAX. CLAMPING VOLTAGE		能量耐量 ENERGY (J)		最大通流容量 MAX. PEAK CURRENT 8/20 μ s (A)		最大静 态功率 RATED POWER	电容量 (参考值) CAPACITANCE (REFERENCE) (1KHZ)			
	V	Arms(V)	DC(V)	Vc(V)	Ip(A)	10/1000 μ s	2ms	1time	2time	W	pF			
MYG20G05K181	180 (162-198)	115	150	315	5	7.5	5.0	800	600	0.1	120			
MYG20G07K181				300	10	15	11	1750	1250	0.25	350			
MYG20G10K181				300	25	30	21	3500	2500	0.4	750			
MYG20G14K181				300	50	62	42	6000	5000	0.6	1300			
MYG20G20K181				300	100	120	85	10000	7000	1.0	2500			
MYG20G05K201	200 (180-220)	130	170	355	5	8.5	6.0	800	600	0.1	80			
MYG20G07K201				340	10	17.5	12.5	1750	1250	0.25	250			
MYG20G10K201				340	25	35	25	3500	2500	0.4	500			
MYG20G14K201				340	50	70	50	6000	5000	0.6	1000			
MYG20G20K201				340	100	140	100	10000	7000	1.0	2000			
MYG20G05K221	220 (198-242)	140	180	380	5	9	6.5	800	600	0.1	70			
MYG20G07K221				360	10	19	13.5	1750	1250	0.25	250			
MYG20G10K221				360	25	39	27.5	3500	2500	0.4	450			
MYG20G14K221				360	50	78	55	6000	5000	0.6	1000			
MYG20G20K221				360	100	155	110	10000	7000	1.0	2000			
MYG20G05K241	240 (216-264)	150	200	415	5	10.5	7.5	800	600	0.1	70			
MYG20G07K241				395	10	21	15	1750	1250	0.25	210			
MYG20G10K241				395	25	42	30	3500	2500	0.4	400			
MYG20G14K241				395	50	84	60	6000	5000	0.6	900			
MYG20G20K241				395	100	168	120	10000	7000	1.0	1800			
MYG20G05K271	270 (243-297)	175	225	475	5	11	8	800	600	0.1	65			
MYG20G07K271				455	10	24	17	1750	1250	0.25	170			
MYG20G10K271				455	25	49	35	3500	2500	0.4	350			
MYG20G14K271				455	50	99	70	6000	5000	0.6	750			
MYG20G20K271				455	100	190	135	10000	7000	1.0	1600			
MYG20G05K331	330 (297-363)	210	275	580	5	13.0	9.5	800	600	0.1	65			
MYG20G07K331				550	10	28	20	1750	1250	0.25	150			
MYG20G10K331				550	25	58	42	3500	2500	0.4	330			
MYG20G14K331				550	50	115	80	6000	5000	0.6	650			
MYG20G20K331				550	100	228	160	10000	6500	1.0	1400			
MYG20G05K361	360 (324-396)	230	300	620	5	16	11	800	600	0.1	50			
MYG20G07K361				595	10	32	23	1750	1250	0.25	130			
MYG20G10K361				595	25	65	45	3500	2500	0.4	300			
MYG20G14K361				595	50	130	90	6000	5000	0.6	550			
MYG20G20K361				595	100	255	180	10000	6500	1.0	1200			
MYG20G05K391	390 (351-429)	250	320	675	5	17	12	800	400	0.1	50			
MYG20G07K391				650	10	35	25	1750	1250	0.25	130			
MYG20G10K391				650	25	70	50	3500	2500	0.4	270			
MYG20G14K391				650	50	140	100	6000	5000	0.6	500			
MYG20G20K391				650	100	275	195	10000	7000	1.0	1000			
MYG20G05K431	430 (387-473)	275	385	745	5	20	13.5	800	600	0.1	45			
MYG20G07K431				710	10	40	27.5	1750	1250	0.25	110			
MYG20G10K431				710	25	80	55	3500	2500	0.4	250			
MYG20G14K431				710	50	155	110	6000	4500	0.6	450			
MYG20G20K431				710	100	303	215	10000	6500	1.0	900			
MYG20G05K471	470 (423-517)	300	385	810	5	21	15	800	600	0.1	40			
MYG20G07K471				775	10	42	30	1750	1250	0.25	100			
MYG20G10K471				775	25	85	60	3500	2500	0.4	230			
MYG20G14K471				775	50	175	125	6000	4500	0.6	400			
MYG20G20K471				775	100	350	250	10000	6500	1.0	900			
MYG20G07K511	511 (459-561)	320	430	845	10	45	30	1750	1250	0.25	38			
MYG20G10K511				845	25	92	67	3500	2500	0.4	210			
MYG20G14K511				845	50	190	136	6000	4500	0.6	350			
MYG20G20K511				845	100	382	273	10000	6500	1.0	800			
MYG20G10K561				560 (504-616)	350	455	925	25	92	67	3500	2500	0.4	190
MYG20G14K561	925	50	190				136	5000	4500	0.6	300			
MYG20G20K561	925	100	382				273	7500	6500	1.0	700			
MYG20G10K621	620 (558-682)	380	505				1025	25	92	67	3500	2500	0.4	130
MYG20G14K621							1025	50	190	136	5000	4500	0.6	250
MYG20G20K621				1025	100	382	273	7500	6500	1.0	500			
MYG20G10K681				680 (612-748)	420	560	1120	25	92	67	3500	2500	0.4	130
MYG20G14K681							1120	50	190	36	5000	4500	0.6	250
MYG20G20K681	1120	100	382				273	7500	6500	1.0	460			
MYG20G10K751	750 (675-825)	460	615				1240	25	100	70	3500	2500	0.4	120
MYG20G14K751							1240	50	210	150	5000	4500	0.6	230
MYG20G20K751				1240	100	420	300	7500	6500	1.0	420			

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		V	Arms(V)	DC(V)	Vc(V)	Ip(A)	10/1000 μ s	2ms	1time		
MYG20G10K781	780 (702-858)	485	640	1290	25	100	70	3500	2500	0.4	120
MYG20G14K781				1290	50	210	150	5000	4500	0.6	230
MYG20G20K781				1290	100	420	300	7500	6500	1.0	420
MYG20G10K821	820 (738-902)	510	670	1355	25	110	80	3500	2500	0.4	110
MYG20G14K821				1355	50	235	165	5000	4500	0.6	200
MYG20G20K821				1355	100	460	325	7500	6500	1.0	400
MYG20G10K911	910 (819-1001)	550	745	1500	25	130	90	3500	2500	0.4	100
MYG20G14K911				1500	50	255	180	5000	4500	0.6	180
MYG20G20K911				1500	100	510	360	7500	6500	1.0	350
MYG20G10K102	1000 (900-10000)	625	825	1650	25	140	100	3500	2500	0.4	90
MYG20G14K102				1650	50	280	200	5000	4500	0.6	150
MYG20G20K102				1650	100	565	400	7500	6500	1.0	320
MYG20G10K112	1100 (990-1210)	680	895	1815	25	155	110	3500	2500	0.4	80
MYG20G14K112				1815	50	310	220	5000	4500	0.6	150
MYG20G20K112				1815	100	620	440	7500	6500	1.0	300
MYG20G14K182	1800 (1620-1980)	1000	1465	2970	50	510	360	5000	4500	0.6	100
MYG20G20K182				2970	100	1020	720	7500	6500	1.0	200

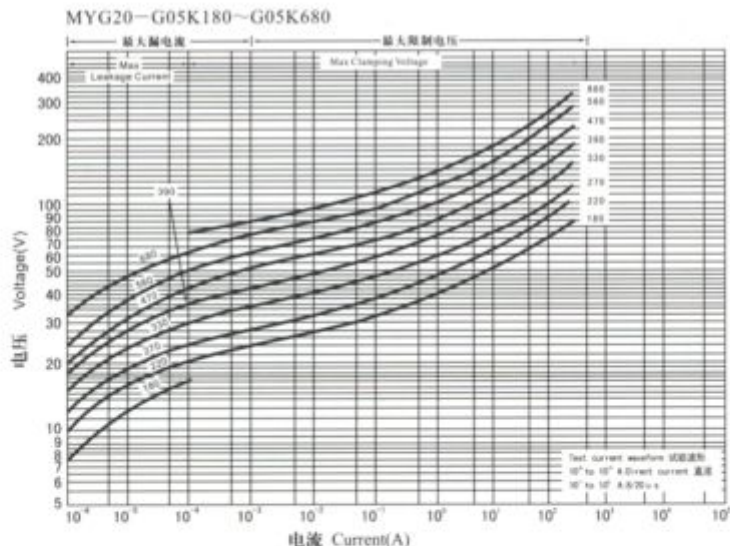
- 注：1、05K产品测量压敏电压为V0.1mA，07K、10K、14K、20K产品测量压敏电压为V1mA。
Varistor voltage are measured at 0.1 mA for 05K Series, and at 1 mA for 07K、10K、14K、20K.
- 2、工作环境温度：-40℃~+85℃ Operating Temperature Range: -40℃~+85℃
储存温度：-40℃~+125℃ Storage Temperature Range: -40℃~+125℃

5.产品外形尺寸 (Dimension)

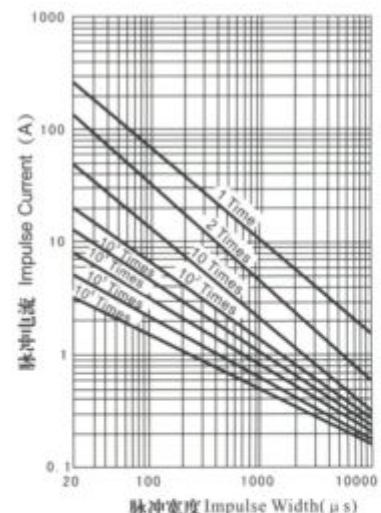
	电压范围 range of voltage (V)	尺寸 Dimensions(mm)			
		D max.	T max	W \pm 1.0	d
5K	18-68	7.5	4.0-5.2	5.0	0.6
	82-470	7.5	4.1-6.2	5.0	0.6
7K	18-68	8.5	4.1-5.4	5.0	0.6
	82-510	9.0	4.2-6.5	5.0	0.6
10K	18-68	12.5	4.3-5.5	7.5	0.8
	82-1100	13.5	4.3-9.7	7.5	0.8
14K	18-68	16.0	4.5-5.7	7.5	0.8
	82-1800	16.5	4.4-15.2	7.5	0.8
20K	18-68	23.0	4.7-6.0	10.0	1.0
	82-1800	23.5	4.8-15.5	10.0	1.0



6.特性曲线 (Characteristic Curves)

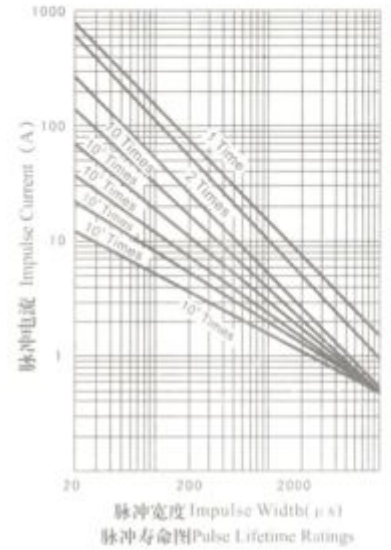
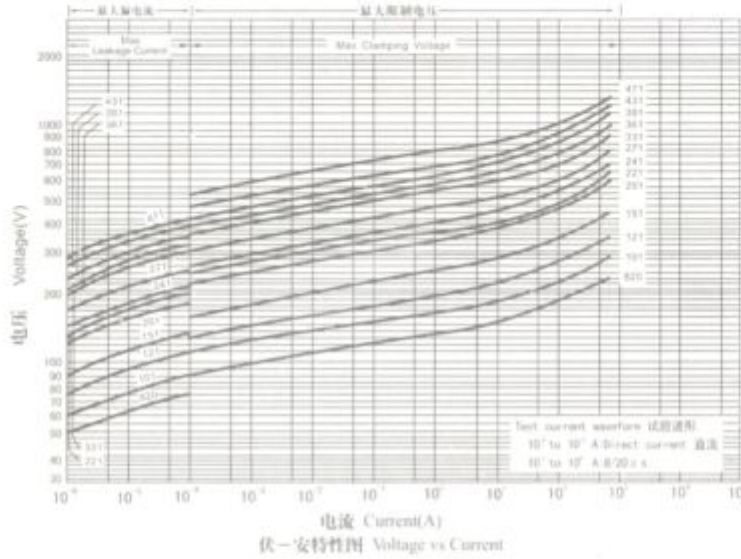


伏-安特性图 Voltage vs Current

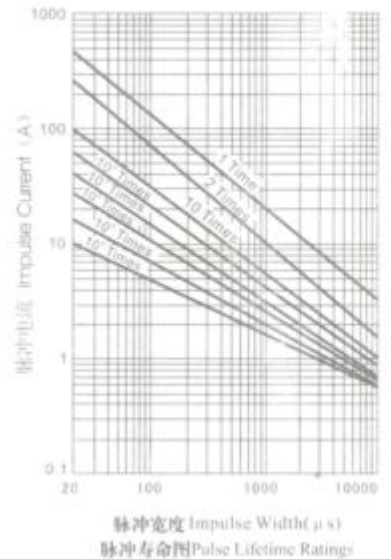
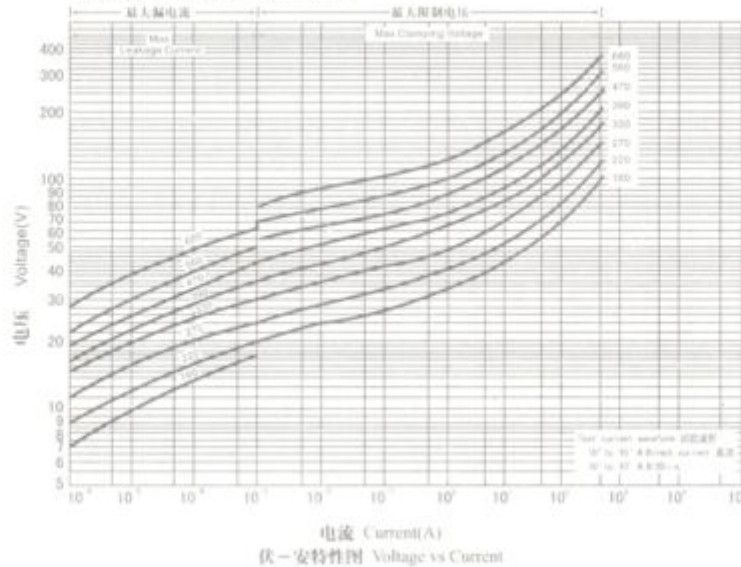


脉冲寿命图 Pulse Lifetime Ratings

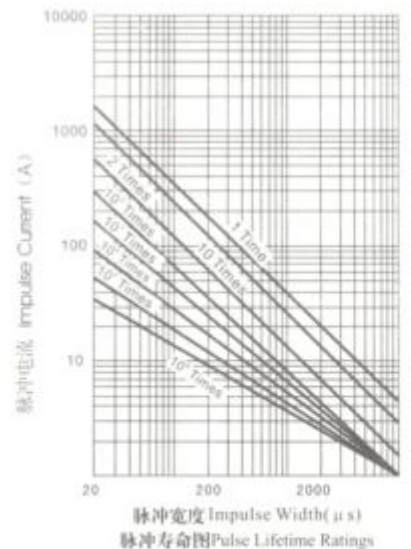
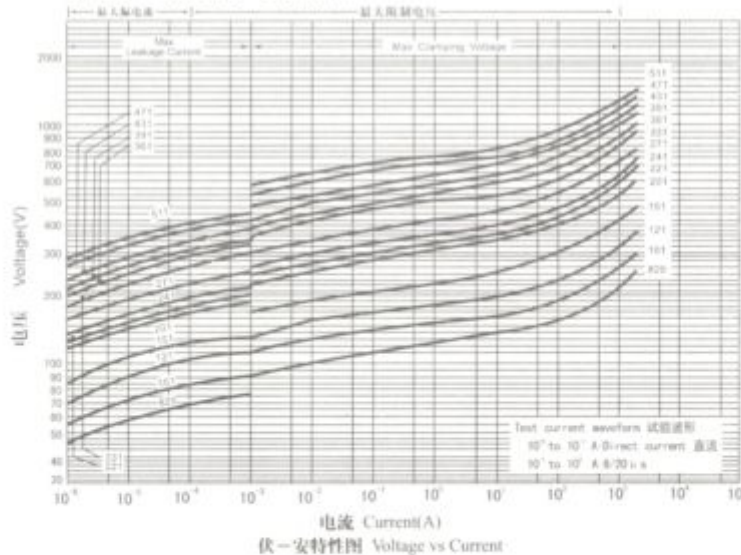
MYG20-G05K820-G05K471

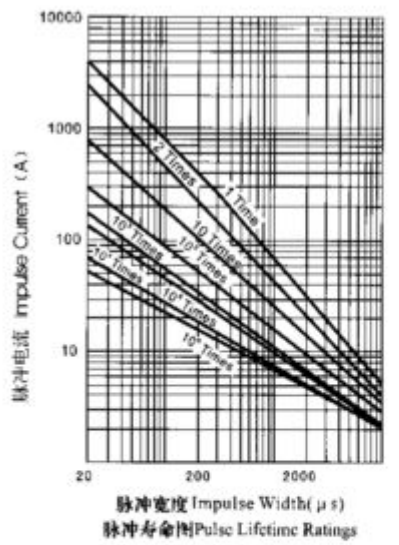
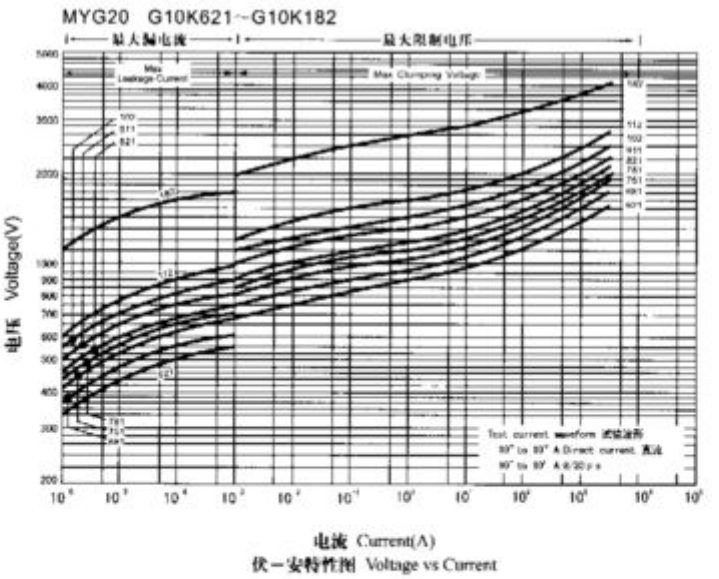
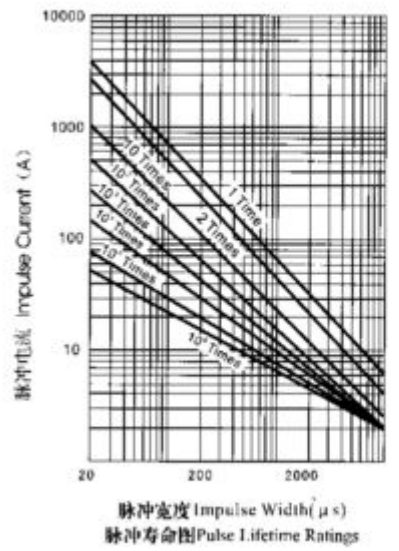
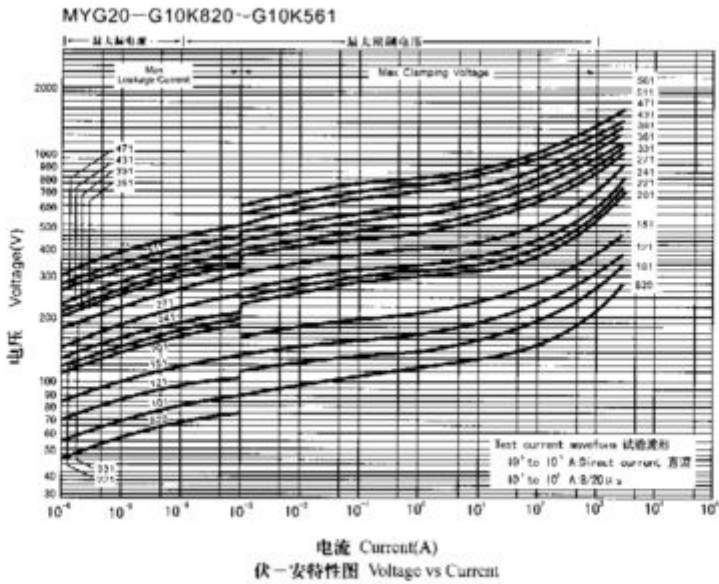
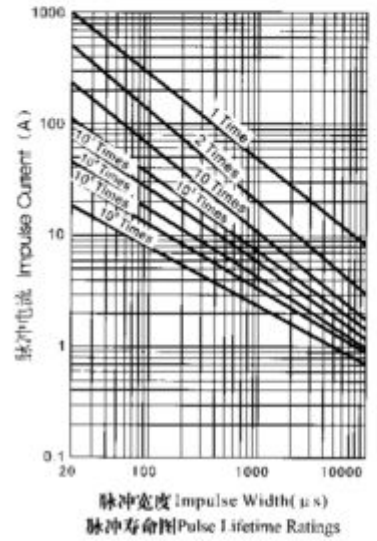
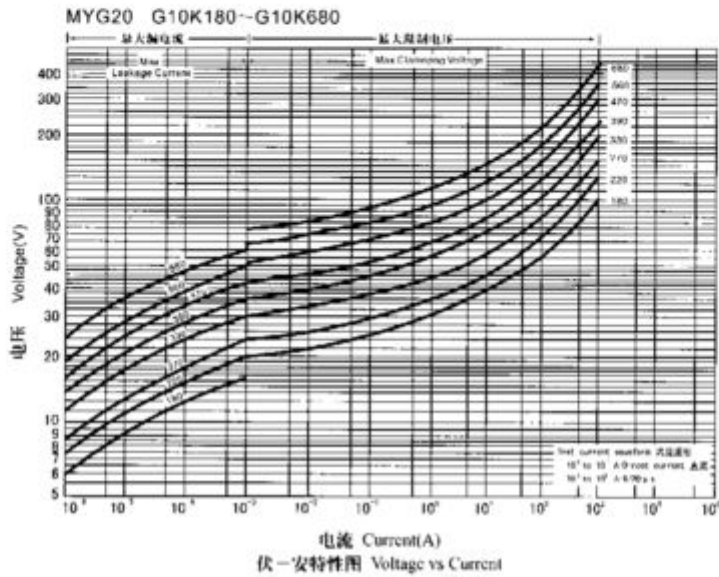


MYG20-G07K180-G07K680

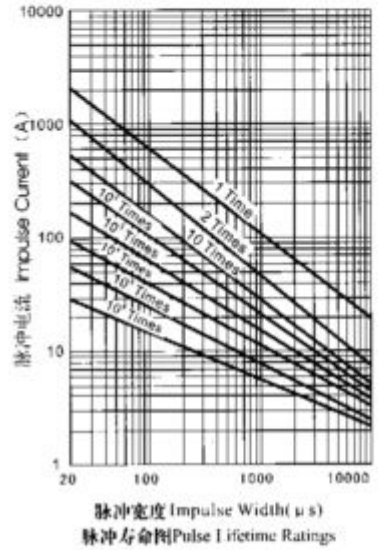
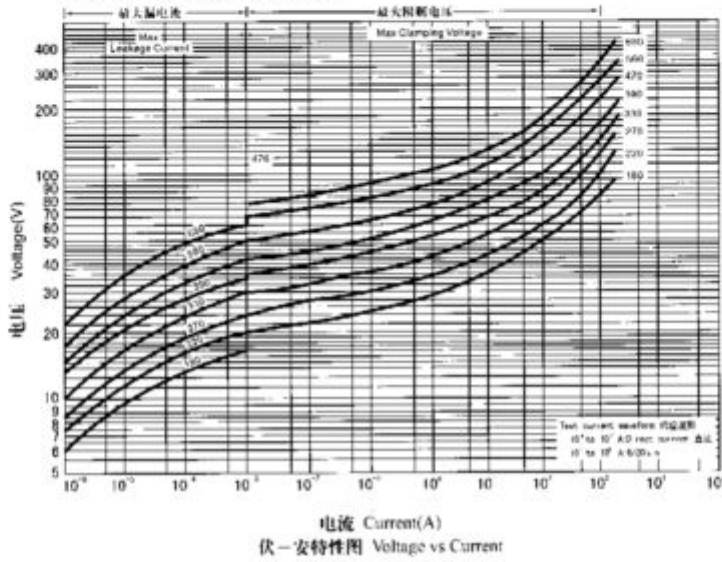


MYG20-G07K820-G07K511

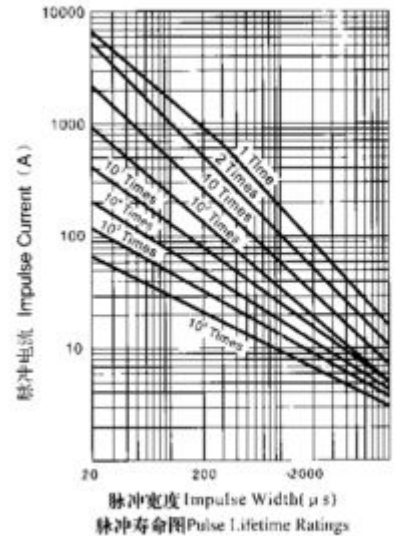
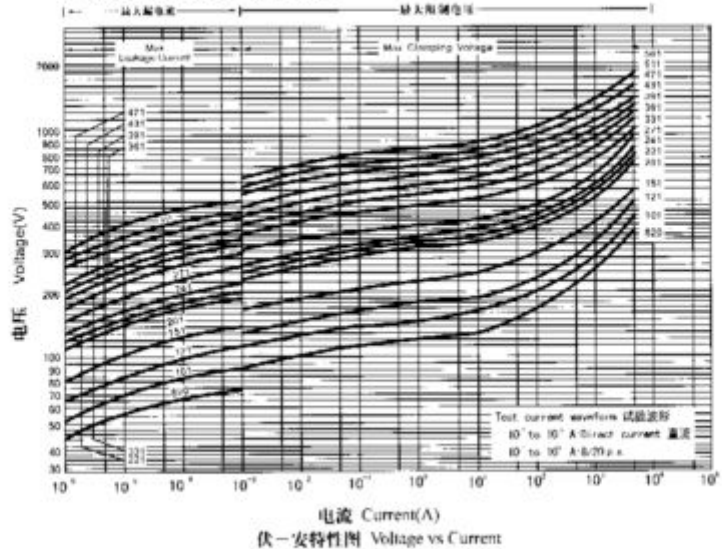




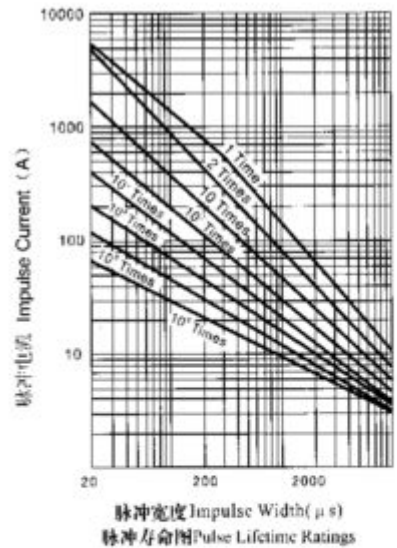
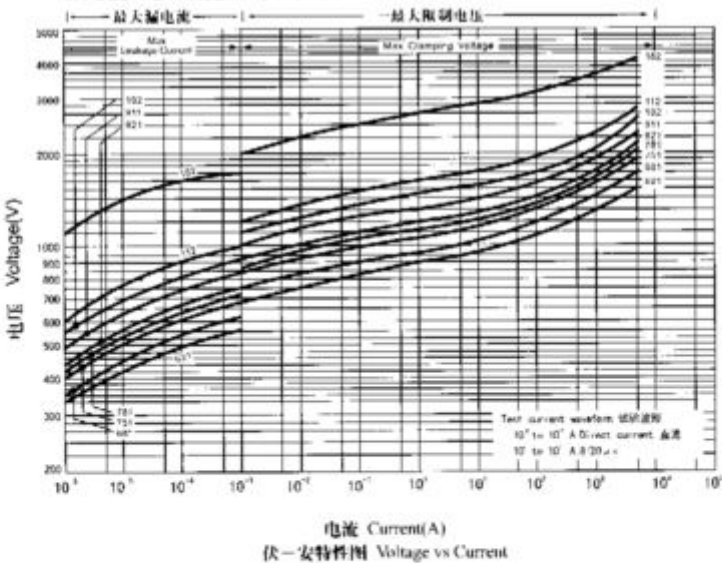
MYG20-G14K180~G14K680



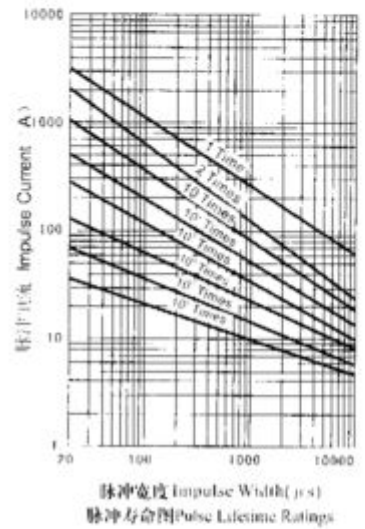
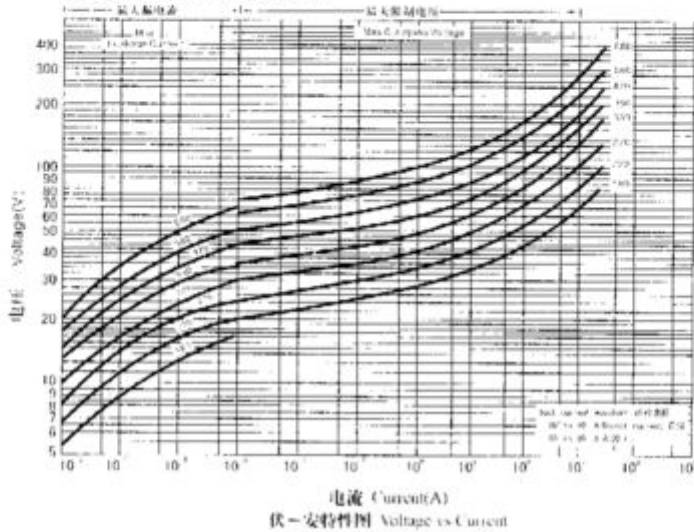
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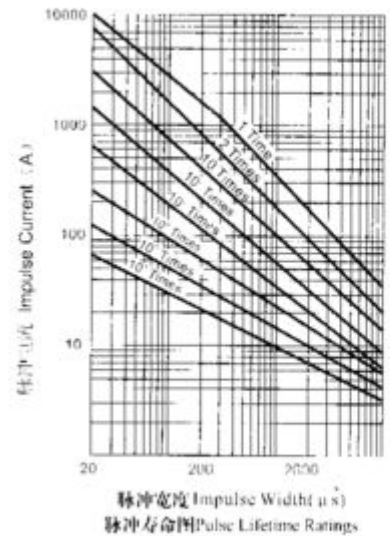
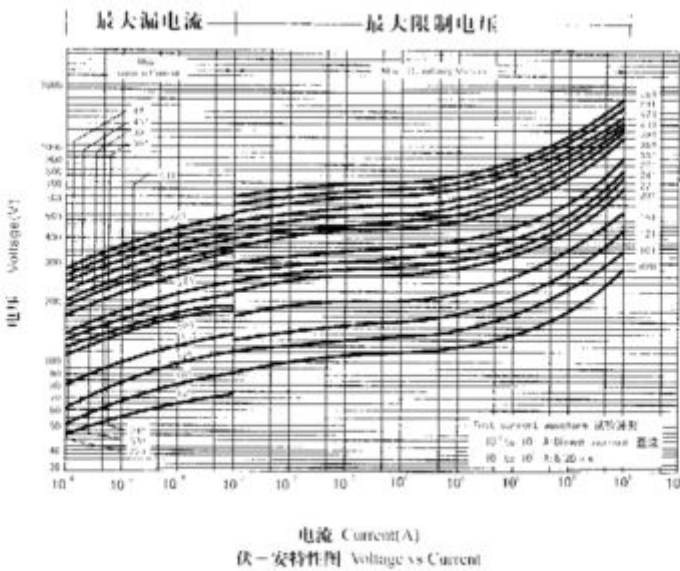
MYG20-G14K821~G14K182



MYG20 G20K180 G20K680



MYG20 G20K820 G20K561



MYG20 G20K621 G20K182

