



RATING AND CHARACTERISTICS

Standard Varistors - 5mm

Ordering Code	Varistor Voltage at 0.1mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT05N180M65□△△	18	±20%	11	14	40	1	100	0.1	0.01	0.6	☆ ★ ★
JVT05N220L65□△△	22	±15%	14	18	48					0.7	☆ ★ ★
JVT05N270K65□△△	27	±10%	17	22	60					0.9	☆ ★ ★
JVT05N330K65□△△	33		20	26	73					1.1	☆ ★ ★
JVT05N390K65□△△	39		25	31	86					1.2	☆ ★ ★
JVT05N470K65□△△	47		30	38	104					1.5	☆ ★ ★
JVT05N560K65□△△	56		35	45	123					1.8	☆ ★ ★
JVT05N680K65□△△	68		40	56	150					2.1	☆ ★ ★
JVT05N820K65□△△	82		50	65	145	5	400	0.1	0.1	2.8	☆ ★ ★
JVT05N101K65□△△	100		60	85	175					3.5	☆ ★ ★
JVT05N121K65□△△	120		75	100	210					4	☆ ★ ★
JVT05N151K65□△△	150		95	125	260					5.5	☆ ★ ★
JVT05N181K65□△△	180		115	150	320					6.5	☆ ★ ★
JVT05N201K65□△△	200		130	170	355					7.1	☆ ★ ★
JVT05N221K65□△△	220		140	180	380					7.8	☆ ★ ★
JVT05N241K65□△△	240		150	200	415					8.4	☆ ★ ★
JVT05N271K65□△△	270		175	225	475					9.9	☆ ★ ★
JVT05N301K65□△△	300		195	250	525					10.5	☆ ★ ★
JVT05N331K65□△△	330		210	275	575					11.5	☆ ★ ★
JVT05N361K65□△△	360		230	300	620					13	☆ ★ ★
JVT05N391K65□△△	390		250	320	675					15	☆ ★ ★
JVT05N431K65□△△	430		275	350	745					16.5	☆ ★ ★
JVT05N471K65□△△	470		300	385	810					17.5	☆ ★ ★
JVT05N511K65□△△	510		320	418	880					18.5	☆ ★ ★
JVT05N561K65□△△	560		350	460	940					19.5	☆ ★ ★
JVT05N621K65□△△	620		385	505	1050					20.5	☆ ★ ★
JVT05N681K65□△△	680		420	560	1150					21.5	☆ ★ ★
JVT05N751K65□△△	750		460	615	1290					22.5	☆ ★ ★

※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

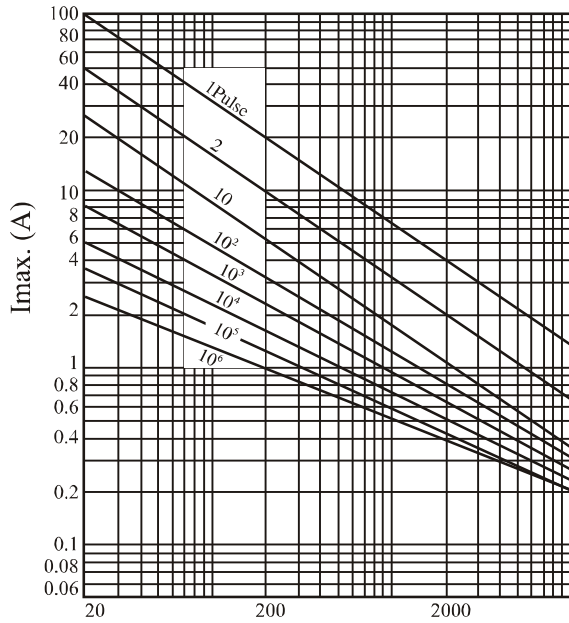
Application notes for UL,CUL,VDE and CQC reconized related standards

Standard N0.	UL	CUL	VDE	CQC	
	UI1449 4 TH Edition	CSA 22.2 N0. 8-13	IEC61051-1 IEC61051-2 IEC61051-2-2	GB/T1093-1997 GB/T10194-1997	GB4943.1-2011 GB/T1093-1997 GB/T10194-1997 GB8898-2011
Title	Transient Voltage Surge Suppressors	Transient Voltage Surge Suppressors	Varistors for use in electronic equipment	Engaged in Voluntary Product Certification	
File No.	VZCA2.E325508	VZCA8.E325508	1900600-4790-0002/209098	CQC15001130702/0703/0700/1017/0699	
Symbols	★		★	★	⊙



PULSE LIFETIME RATINGS - 5mm

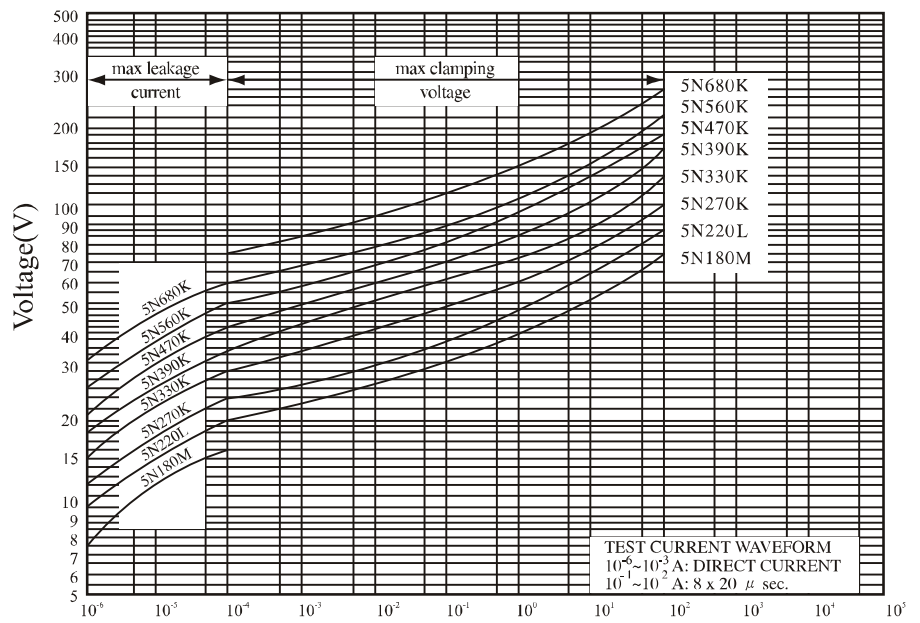
5N180M~680K



Rectangular Wave (μ sec.)

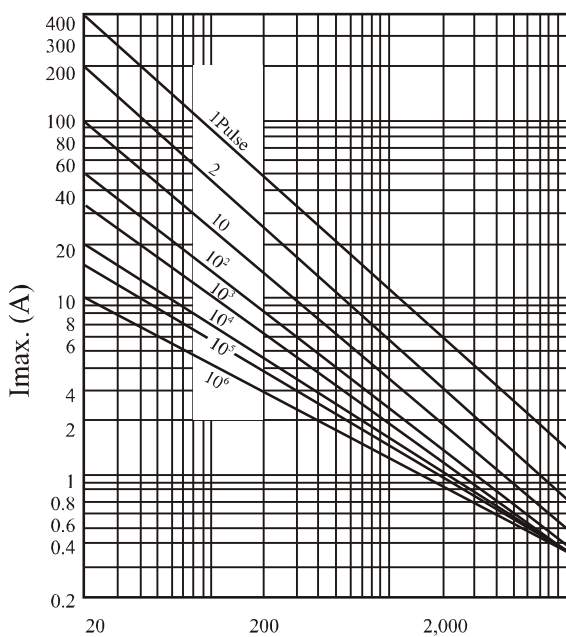
V-I CHARACTERISTIC CURVE - 5mm

5N180M~680K



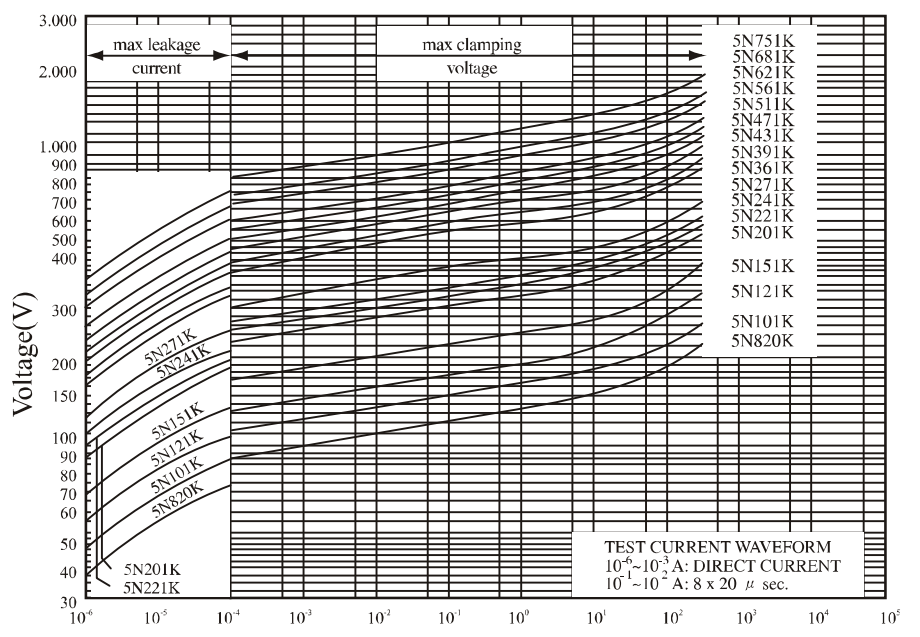
Current(A)

5N820K~751K



Rectangular Wave (μ sec.)

5N820K~751K



Current(A)



RATING AND CHARACTERISTICS

Standard Varistors - 7mm

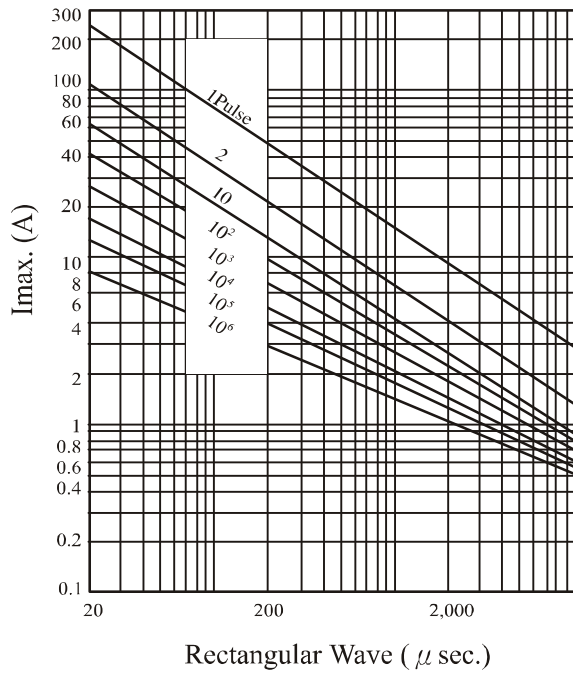
Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT07N180M65□△△	18	±20%	11	14	36	2.5	250	0.2	0.02	1.2	☆☆☆
JVT07N220L65□△△	22	±15%	14	18	43					1.4	☆☆☆
JVT07N270K65□△△	27	±10%	17	22	53					1.7	☆☆☆
JVT07N330K65□△△	33		20	26	65					2.2	☆☆☆
JVT07N390K65□△△	39		25	31	77					2.4	☆☆☆
JVT07N470K65□△△	47		30	38	93					3.0	☆☆☆
JVT07N560K65□△△	56		35	45	110					3.5	☆☆☆
JVT07N680K65□△△	68		40	56	135					4.3	☆☆☆
JVT07N820K65□△△	82		50	65	135	10	1200	0.5	0.25	5.5	☆☆☆
JVT07N101K65□△△	100		60	85	165					7.0	☆☆☆
JVT07N121K65□△△	120		75	100	200					8.0	☆☆☆
JVT07N151K65□△△	150		95	125	250					11.0	☆☆☆
JVT07N181K65□△△	180		115	150	300					13.0	☆☆☆
JVT07N201K65□△△	200		130	170	340					14.3	☆☆☆
JVT07N221K65□△△	220		140	180	360					15.5	☆☆☆
JVT07N241K65□△△	240		150	200	395					16.8	☆☆☆
JVT07N271K65□△△	270		175	225	455					19.8	☆☆☆
JVT07N301K65□△△	300		195	250	505					21.0	☆☆☆
JVT07N331K65□△△	330		210	275	550					23.0	☆☆☆
JVT07N361K65□△△	360		230	300	595					26.0	☆☆☆
JVT07N391K65□△△	390		250	320	650					30.0	☆☆☆
JVT07N431K65□△△	430		275	350	710					33.0	☆☆☆
JVT07N471K65□△△	470		300	385	775					35.0	☆☆☆
JVT07N511K65□△△	510		320	418	842					37.0	☆☆☆
JVT07N561K65□△△	560		350	460	920					39.0	☆☆☆
JVT07N621K65□△△	620		385	505	1025					41.0	☆☆☆
JVT07N681K65□△△	680		420	560	1120					43.0	☆☆☆
JVT07N751K65□△△	750		460	615	1240					45.0	☆☆☆
JVT07N781k65□△△	780		485	640	1290					46.0	☆☆☆
JVT07N821k65□△△	820		510	670	1355					47.0	☆☆☆

※ JVT = Silicone Coating & Operating Temperature 125 C°

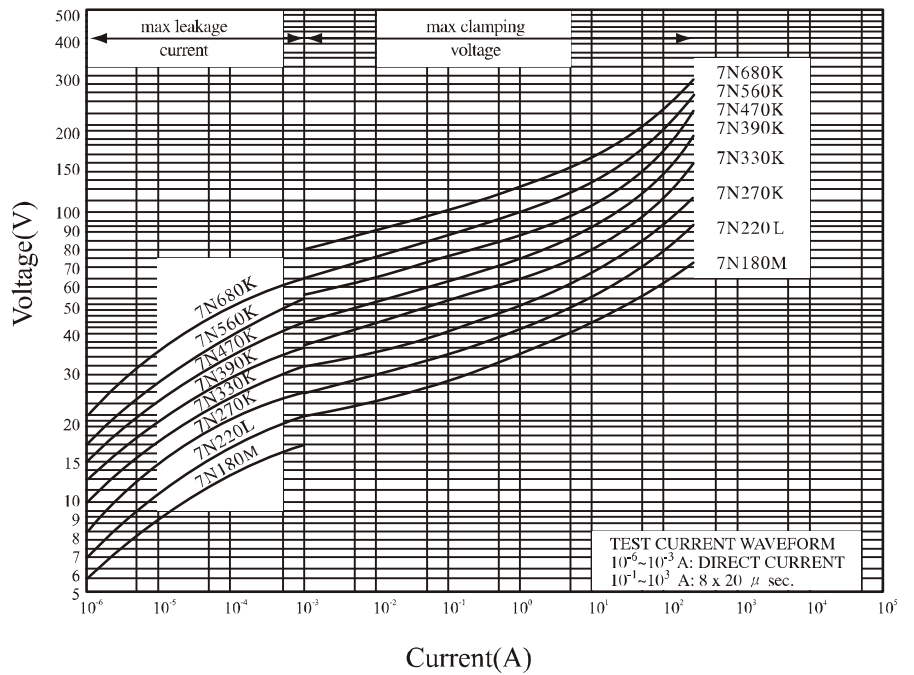
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

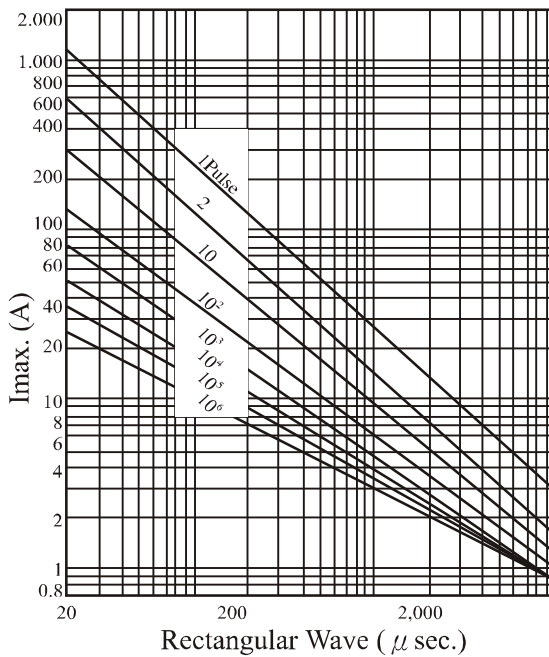
PULSE LIFETIME RATINGS -7mm
7N180M~680K



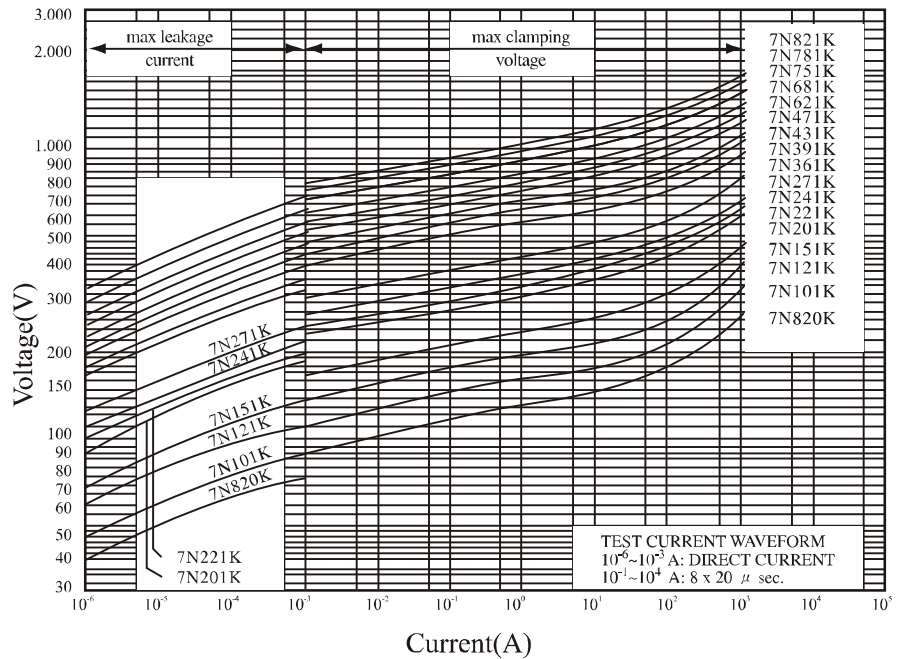
V-I CHARACTERISTIC CURVE -7mm
7N180M~680K



7N820K~821K



7N820K~821K





RATING AND CHARACTERISTICS

Standard Varistors - 10mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT10N180M87□△△	18	±20%	11	14	36	5	500	0.3	0.05	2.4	☆ ★ ☆
JVT10N220L87□△△	22	±15%	14	18	43					2.7	☆ ★ ☆
JVT10N270K87□△△	27	±10%	17	22	53					3.5	☆ ★ ☆
JVT10N330K87□△△	33		20	26	65					4.4	☆ ★ ☆
JVT10N390K87□△△	39		25	31	77					4.7	☆ ★ ☆
JVT10N470K87□△△	47		30	38	93					6.0	☆ ★ ☆
JVT10N560K87□△△	56		35	45	110					7.0	☆ ★ ☆
JVT10N680K87□△△	68		40	56	135					8.5	☆ ★ ☆
JVT10N820K87□△△	82		50	65	135	25	2500	1.5	0.4	11.0	☆ ★ ☆
JVT10N101K87□△△	100		60	85	165					14.0	☆ ★ ☆
JVT10N121K87□△△	120		75	100	200					16.0	☆ ★ ☆
JVT10N151K87□△△	150		95	125	250					22.0	☆ ★ ☆
JVT10N181K87□△△	180		115	150	300					26.0	☆ ★ ☆
JVT10N201K87□△△	200		130	170	340					28.5	☆ ★ ☆
JVT10N221K87□△△	220		140	180	360					31.0	☆ ★ ☆
JVT10N241K87□△△	240		150	200	395					33.5	☆ ★ ☆
JVT10N271K87□△△	270		175	225	455					39.5	☆ ★ ☆
JVT10N301K87□△△	300		195	250	505					42.0	☆ ★ ☆
JVT10N331K87□△△	330		210	275	550					46.0	☆ ★ ☆
JVT10N361K87□△△	360		230	300	595					52.0	☆ ★ ☆
JVT10N391K87□△△	390		250	320	650					60.0	☆ ★ ☆
JVT10N431K87□△△	430		275	350	710					66.0	☆ ★ ☆
JVT10N471K87□△△	470		300	385	775					70.0	☆ ★ ☆
JVT10N511K87□△△	510		320	418	842					74.0	☆ ★ ☆
JVT10N561K87□△△	560		350	460	920					78.0	☆ ★ ☆
JVT10N621K87□△△	620		385	505	1025					82.0	☆ ★ ☆
JVT10N681K87□△△	680		420	560	1120					86.0	☆ ★ ☆
JVT10N751K87□△△	750		460	615	1240					90.0	☆ ★ ☆
JVT10N781K87□△△	780		485	640	1290					92.0	☆ ★ ☆
JVT10N821K87□△△	820		510	670	1355					94.0	☆ ★ ☆
JVT10N911K87□△△	910		550	745	1500					102.0	☆ ★ ☆
JVT10N102K87□△△	1000		625	825	1650					112.0	☆ ★ ☆
JVT10N112K87□△△	1100		680	895	1815					124.0	☆ ★ ☆

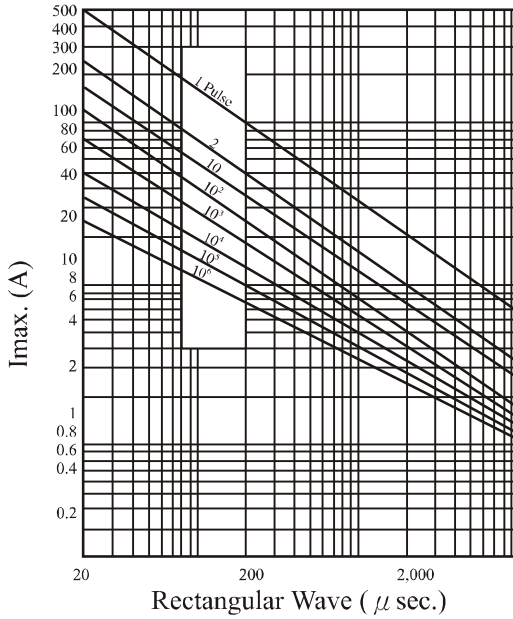
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

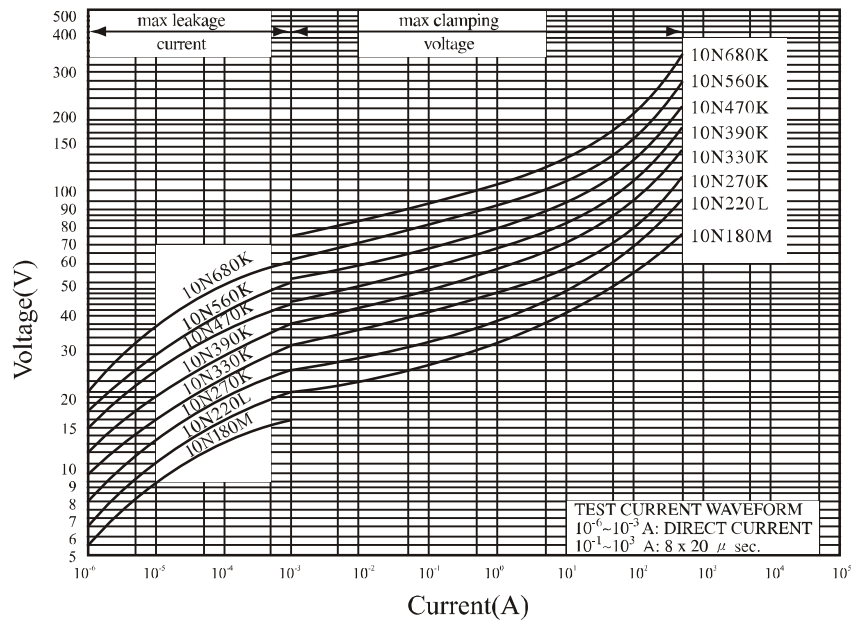
PULSE LIFETIME RATINGS - 10mm

10N180M~680K

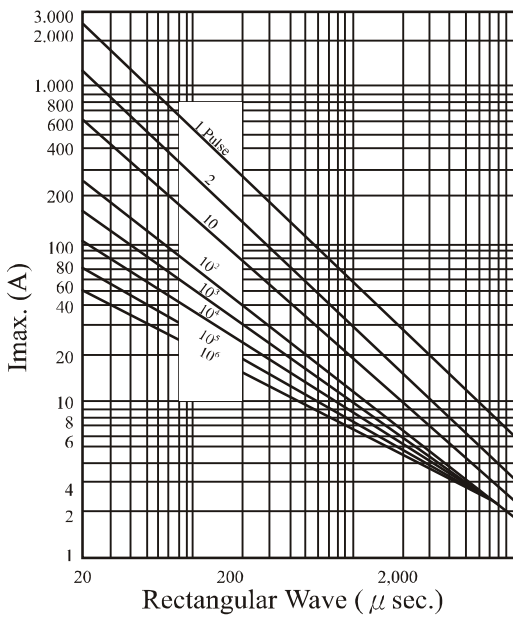


V-I CHARACTERISTIC CURVE - 10mm

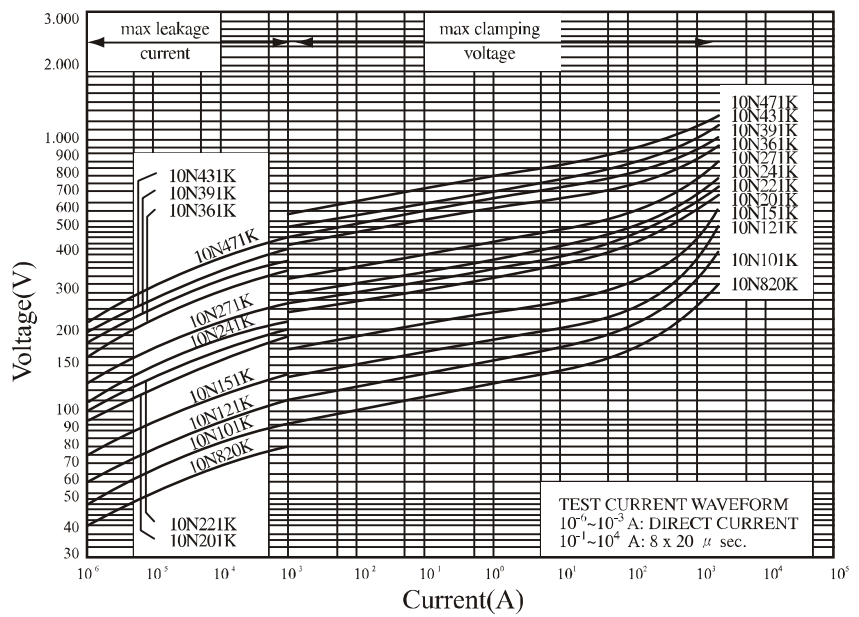
10N180M~680K



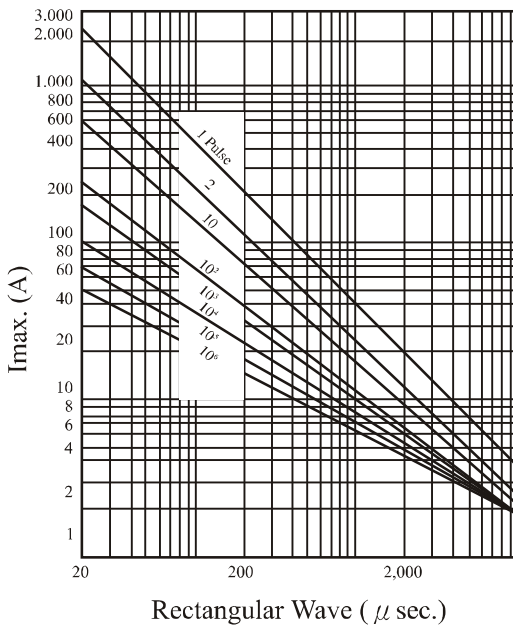
10N820K~471K



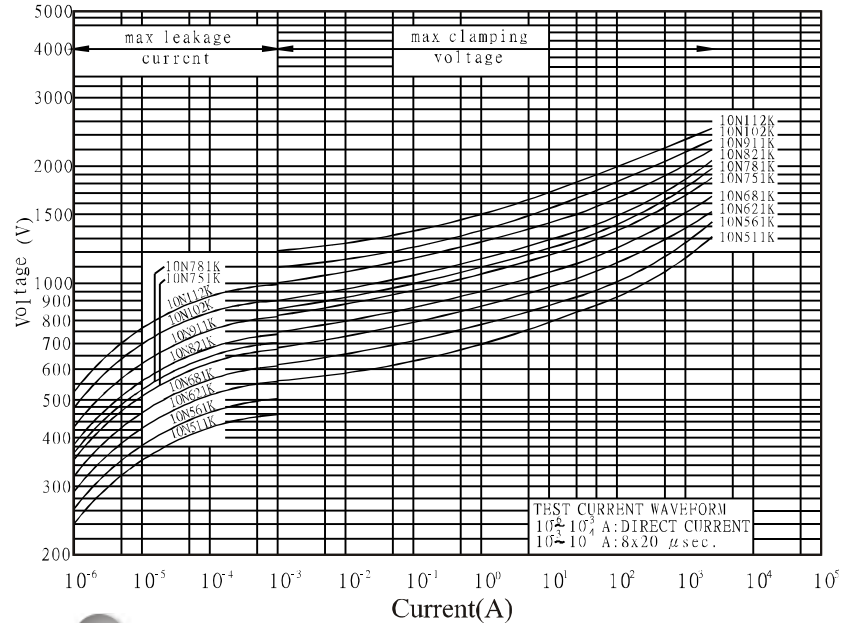
10N820K~471K



10N511K~112K



10N511K~112K





RATING AND CHARACTERISTICS

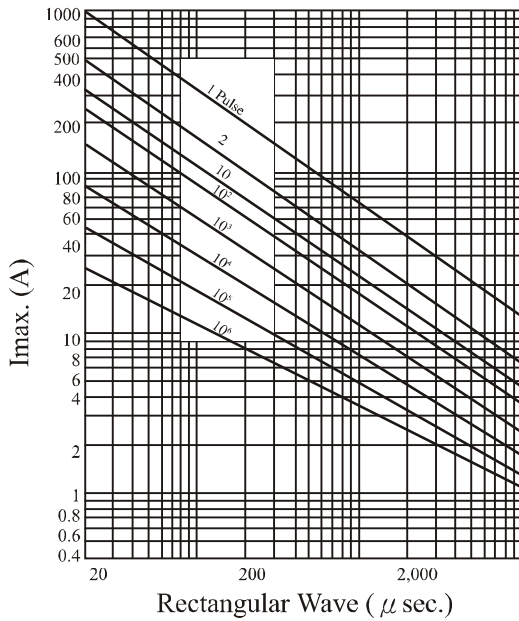
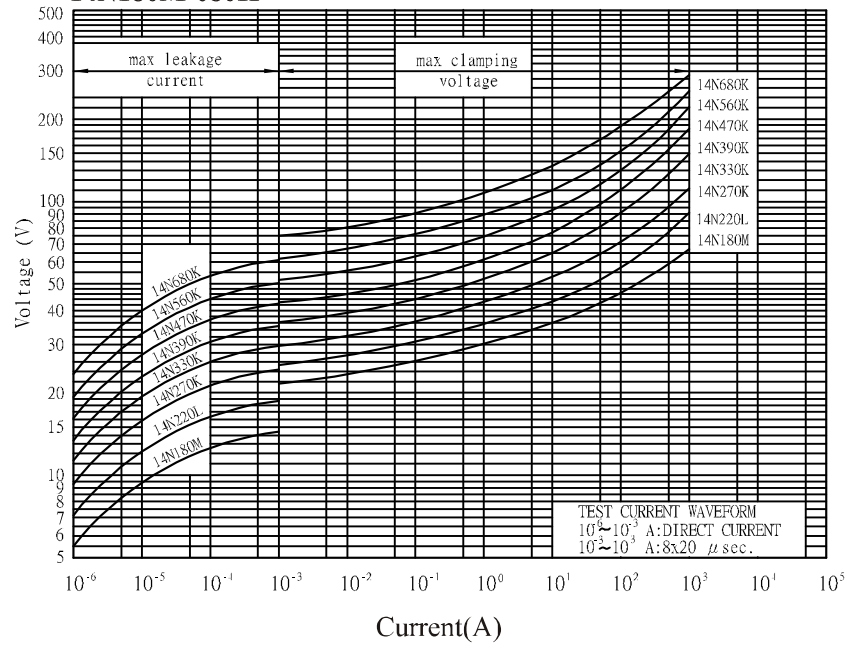
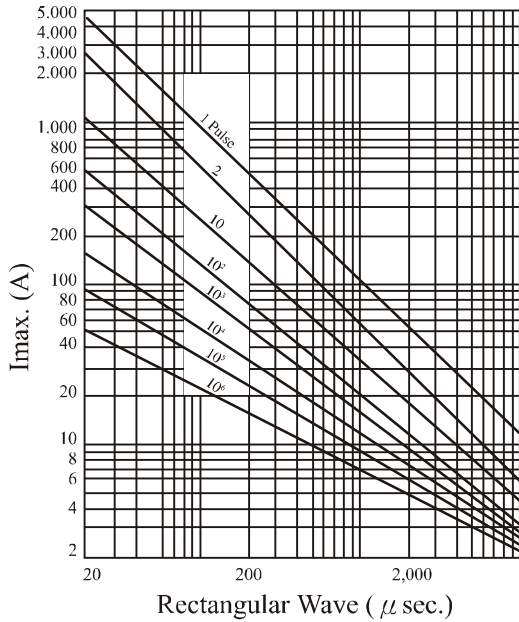
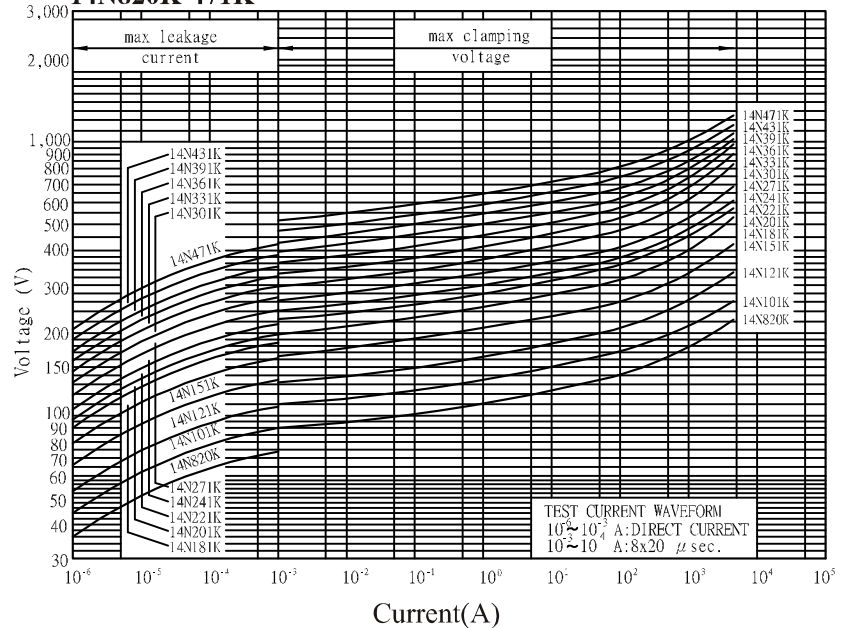
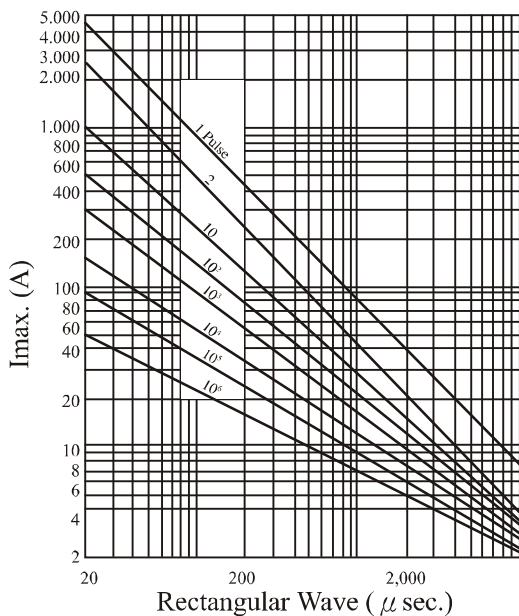
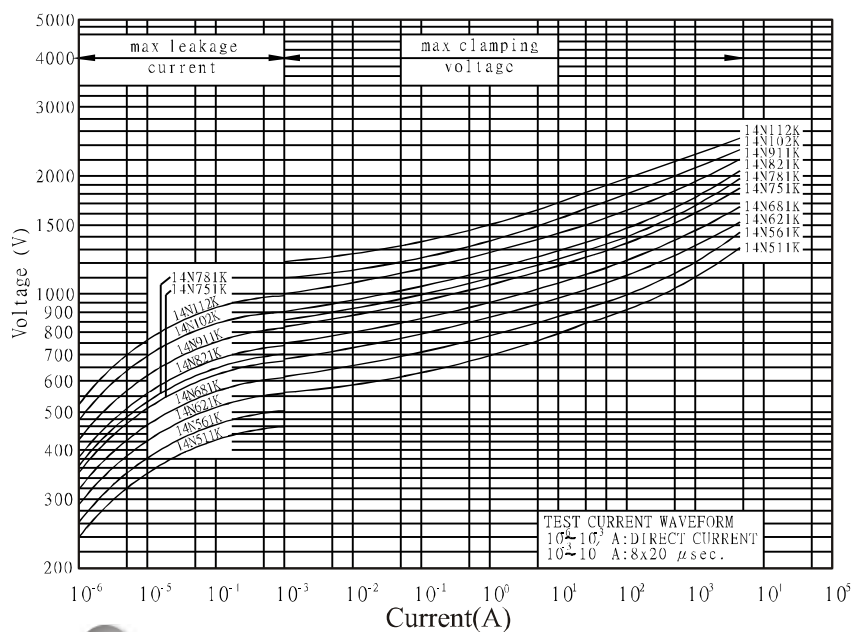
Standard Varistors - 14mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT14N180M87□△△	18	±20%	11	14	36	10	1000	1	0.1	4.7	☆ ★ ☆
JVT14N220L87□△△	22	±15%	14	18	43					5.4	☆ ★ ☆
JVT14N270K87□△△	27	±10%	17	22	53					6.9	☆ ★ ☆
JVT14N330K87□△△	33		20	26	65					8.8	☆ ★ ☆
JVT14N390K87□△△	39		25	31	77					9.4	☆ ★ ☆
JVT14N470K87□△△	47		30	38	93					12.0	☆ ★ ☆
JVT14N560K87□△△	56		35	45	110					14.0	☆ ★ ☆
JVT14N680K87□△△	68		40	56	135					17.0	☆ ★ ☆
JVT14N820K87□△△	82		50	65	135	50	4500	3	0.6	22.0	☆ ★ ☆
JVT14N101K87□△△	100		60	85	165					28.0	☆ ★ ☆
JVT14N121K87□△△	120		75	100	200					32.0	☆ ★ ☆
JVT14N151K87□△△	150		95	125	250					44.0	☆ ★ ☆
JVT14N181K87□△△	180		115	150	300					52.0	☆ ★ ☆
JVT14N201K87□△△	200		130	170	340					57.0	☆ ★ ☆
JVT14N221K87□△△	220		140	180	360					62.0	☆ ★ ☆
JVT14N241K87□△△	240		150	200	395					67.0	☆ ★ ☆
JVT14N271K87□△△	270		175	225	455					79.0	☆ ★ ☆
JVT14N301K87□△△	300		195	250	505					84.0	☆ ★ ☆
JVT14N331K87□△△	330		210	275	550					92.0	☆ ★ ☆
JVT14N361K87□△△	360		230	300	595					104.0	☆ ★ ☆
JVT14N391K87□△△	390		250	320	650					120.0	☆ ★ ☆
JVT14N431K87□△△	430		275	350	710					132.0	☆ ★ ☆
JVT14N471K87□△△	470		300	385	775					140.0	☆ ★ ☆
JVT14N511K87□△△	510		320	418	842					148.0	☆ ★ ☆
JVT14N561K87□△△	560		350	460	920					156.0	☆ ★ ☆
JVT14N621K87□△△	620		385	505	1025					164.0	☆ ★ ☆
JVT14N681K87□△△	680		420	560	1120					172.0	☆ ★ ☆
JVT14N751K87□△△	750		460	615	1240					180.0	☆ ★ ☆
JVT14N781K87□△△	780		485	640	1290					184.0	☆ ★ ☆
JVT14N821K87□△△	820		510	670	1355					188.0	☆ ★ ☆
JVT14N911K87□△△	910		550	745	1500					204.0	☆ ★ ☆
JVT14N102K87□△△	1000		625	825	1650					224.0	☆ ★ ☆
JVT14N112K87□△△	1100		680	895	1815					248.0	☆ ★ ☆

※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

PULSE LIFETIME RATINGS - 14mm**14N180M~680K****V-I CHARACTERISTIC CURVE - 14mm****14N180M-680K****14N820K~471K****14N820K-471K****14N511K~182K****14N511K-112K**



RATING AND CHARACTERISTICS

Standard Varistors - 20mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT20N220M11□△△	22	±20%	14	18	43	20	2000	2	0.2	8.0	☆ ★ ★
JVT20N270M11□△△	27		17	22	53					10.0	☆ ★ ★
JVT20N330M11□△△	33		20	26	65					12.0	☆ ★ ★
JVT20N390L11□△△	39	±15%	25	31	77					14.0	☆ ★ ★
JVT20N470L11□△△	47		30	38	93					17.0	☆ ★ ★
JVT20N560L11□△△	56		35	45	110					20.0	☆ ★ ★
JVT20N680L11□△△	68		40	56	135					24.0	☆ ★ ★
JVT20N820L11□△△	82		50	65	135	100	6500	4	1.0	44.0	☆ ★ ★
JVT20N101K11□△△	100	±10%	60	85	165					56.0	☆ ★ ★
JVT20N121K11□△△	120		75	100	200					64.0	☆ ★ ★
JVT20N151K11□△△	150		95	125	250					88.0	☆ ★ ★
JVT20N181K11□△△	180		115	150	300					104.0	☆ ★ ★
JVT20N201K11□△△	200		130	170	340					114.0	☆ ★ ★
JVT20N221K11□△△	220		140	180	360					124.0	☆ ★ ★
JVT20N241K11□△△	240		150	200	395					134.0	☆ ★ ★
JVT20N271K11□△△	270		175	225	455					158.0	☆ ★ ★
JVT20N301K11□△△	300		195	250	505					168.0	☆ ★ ★
JVT20N331K11□△△	330		210	275	550					184.0	☆ ★ ★
JVT20N361K11□△△	360		230	300	595					208.0	☆ ★ ★
JVT20N391K11□△△	390		250	320	650					240.0	☆ ★ ★
JVT20N431K11□△△	430		275	350	710					264.0	☆ ★ ★
JVT20N471K11□△△	470		300	385	775					280.0	☆ ★ ★
JVT20N511K11□△△	510		320	418	842					296.0	☆ ★ ★
JVT20N561K11□△△	560		350	460	920					312.0	☆ ★ ★
JVT20N621K11□△△	620		385	505	1025					328.0	☆ ★ ★
JVT20N681K11□△△	680		420	560	1120					344.0	☆ ★ ★
JVT20N751K11□△△	750		460	615	1240					360.0	☆ ★ ★
JVT20N781K11□△△	780		485	640	1290					368.0	☆ ★ ★
JVT20N821K11□△△	820		510	670	1355					376.0	☆ ★ ★
JVT20N911K11□△△	910		550	745	1500					408.0	☆ ★ ★
JVT20N102K11□△△	1000		625	825	1650					448.0	☆ ★ ★
JVT20N112K11□△△	1100		680	895	1815					496.0	☆ ★ ★

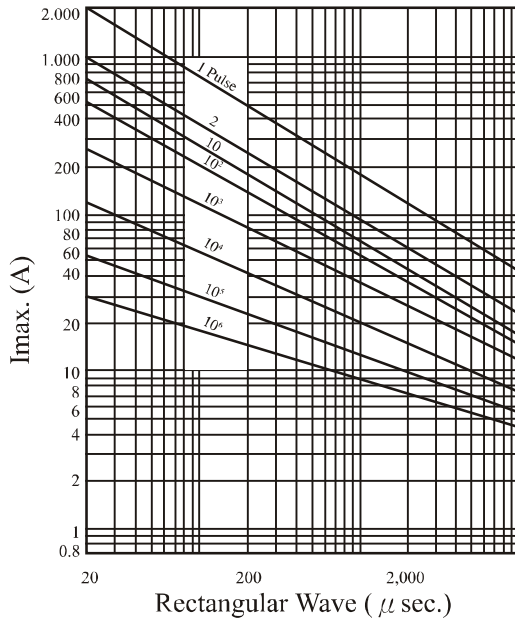
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

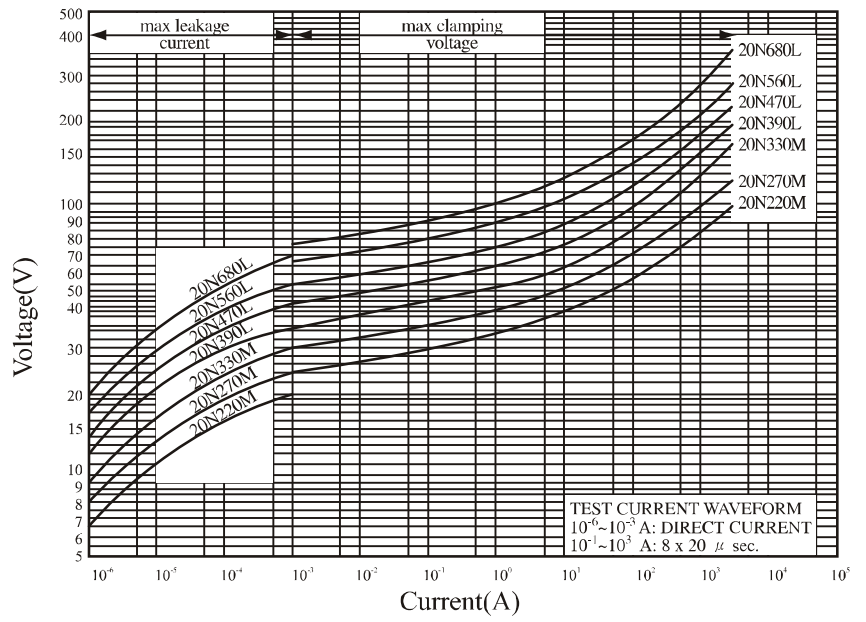
PULSE LIFETIME RATINGS - 20mm

20N220M ~ 680L

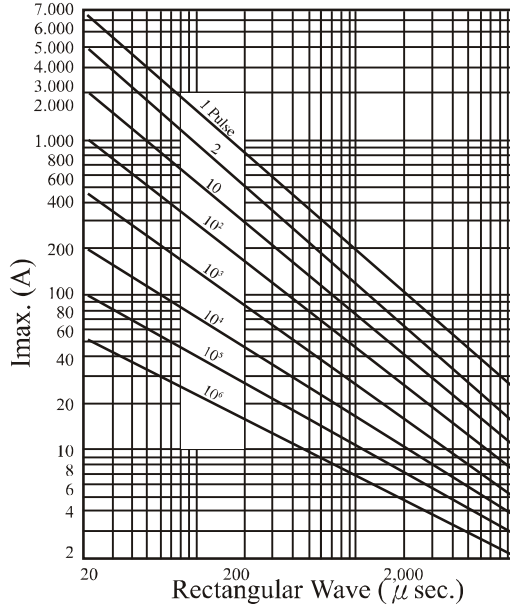


V-I CHARACTERISTIC CURVE - 20mm

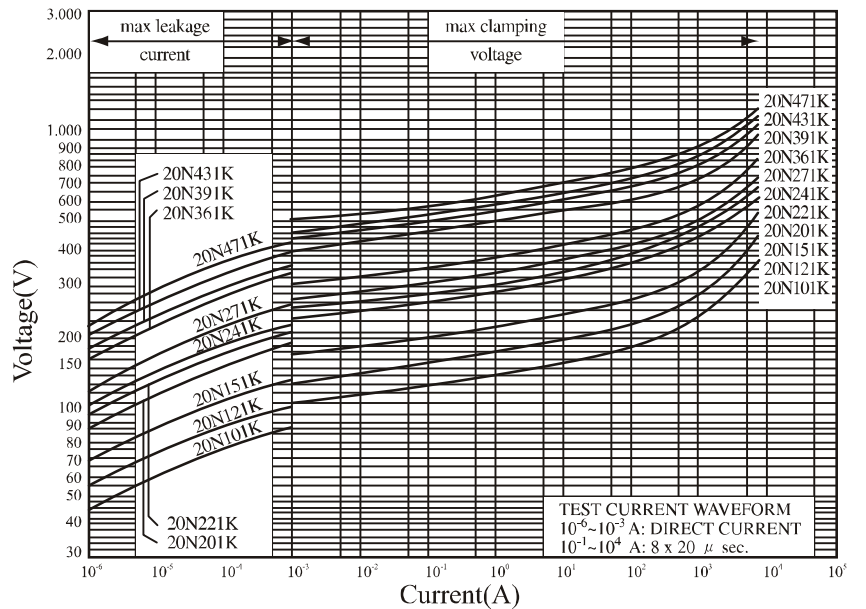
20N220M ~ 680L



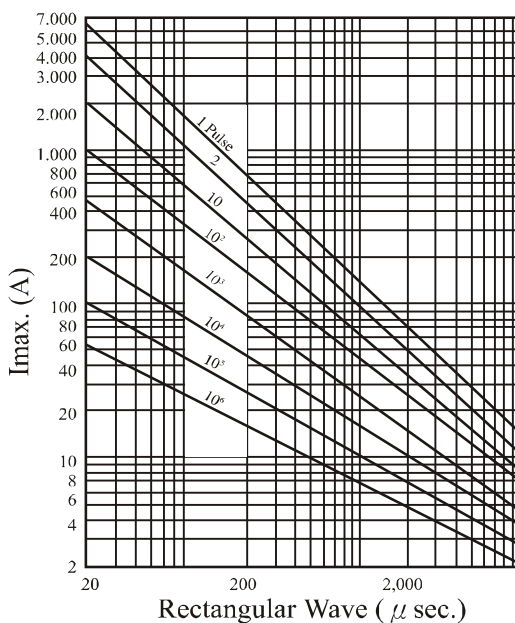
20N101K ~ 471K



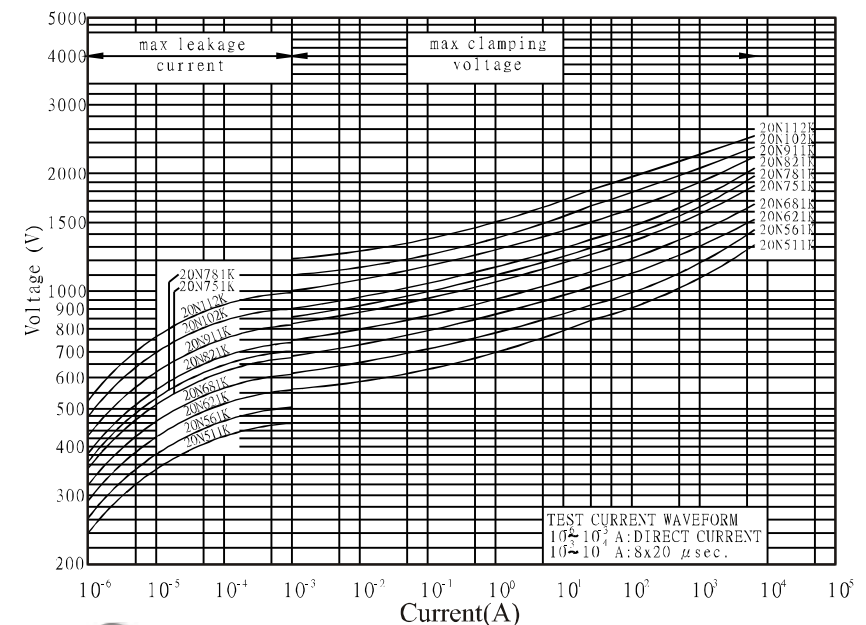
20N101K ~ 471K



20N511K ~ 112K



20N511K ~ 112K





RATING AND CHARACTERISTICS

Standard Varistors - 25mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT25N201K11□△△	200	±10%	130	170	355	150	18000	5	1.2	190	☆ ★
JVT25N221K11□△△	220		140	180	380					205	☆ ★
JVT25N241K11□△△	240		150	200	415					225	☆ ★
JVT25N271K11□△△	270		175	225	445					255	☆ ★
JVT25N301K11□△△	300		195	250	495					280	☆ ★
JVT25N331K11□△△	330		210	275	545					305	☆ ★
JVT25N361K11□△△	360		230	300	595					330	☆ ★
JVT25N391K11□△△	390		250	320	645					360	☆ ★
JVT25N431K11□△△	430		275	350	710					380	☆ ★
JVT25N471K11□△△	470		300	385	775					400	☆ ★
JVT25N511K11□△△	510		320	418	840					420	☆ ★
JVT25N561K11□△△	560		350	460	925					440	☆ ★
JVT25N621K11□△△	620		385	505	1025					460	☆ ★
JVT25N681K11□△△	680		420	560	1125					480	☆ ★
JVT25N751K11□△△	750		460	615	1240					520	☆ ★
JVT25N781K11□△△	780		485	640	1290					540	☆ ★
JVT25N821K11□△△	820		510	670	1360					570	☆ ★
JVT25N911K11□△△	910		550	745	1500					620	☆ ★

※ JVT = Silicone Coating & Operating Temperature 125 C°

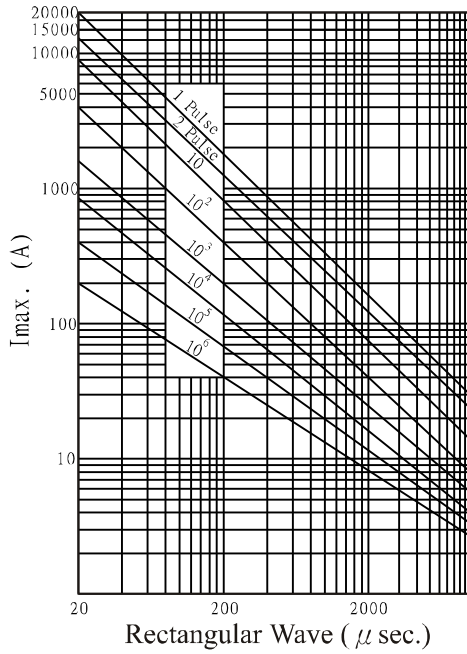
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing



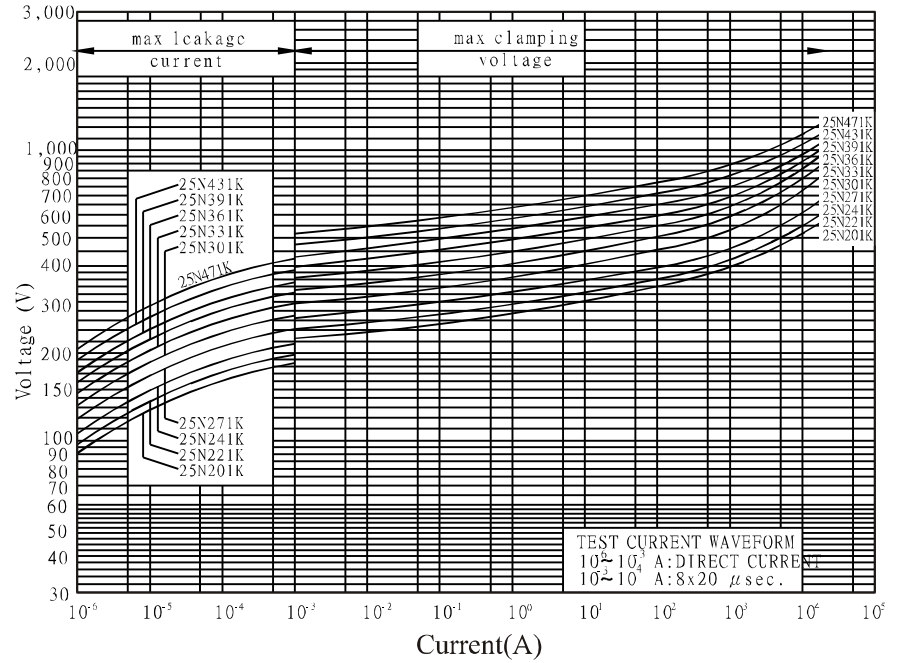
PULSE LIFETIME RATINGS-25mm

25N201K-471K

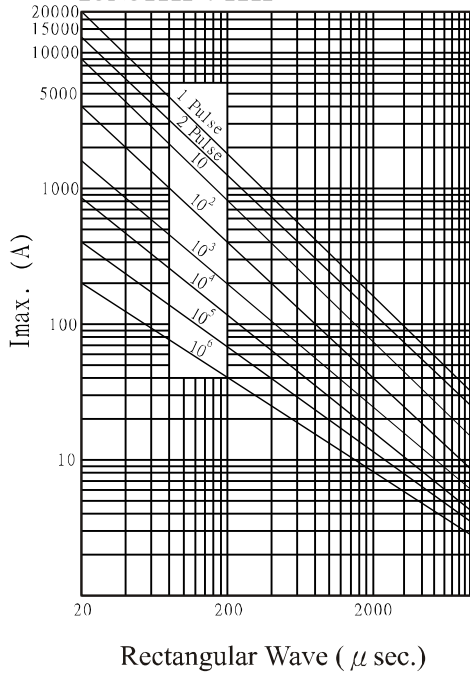


V-I CHARACTERISTIC CURVE -25mm

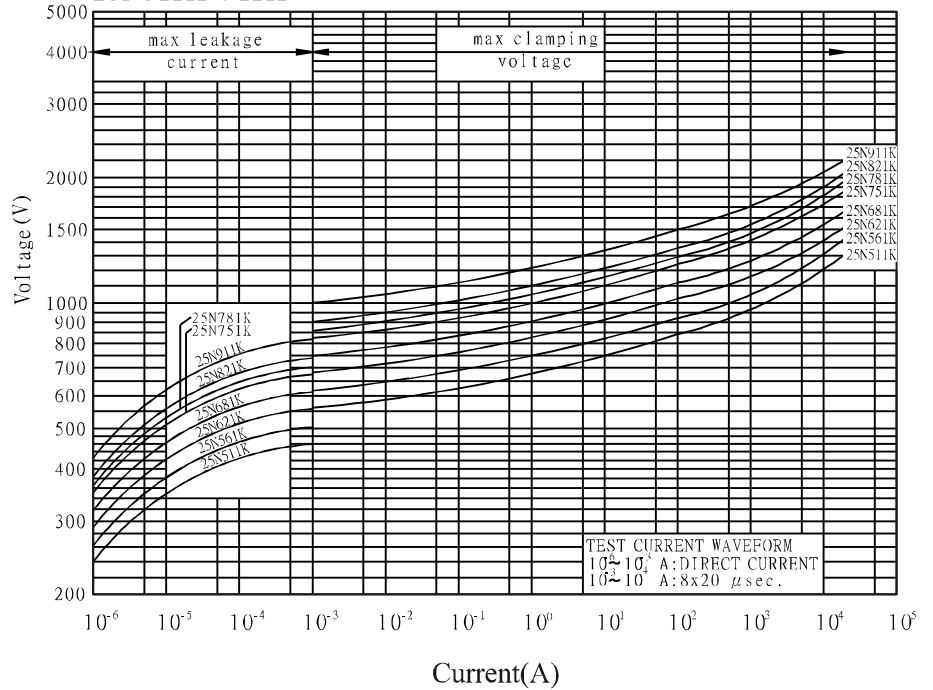
25N201K-471K



25N511K~911K



25N511K~911K





RATING AND CHARACTERISTICS

High Surge Varistors - 5mm

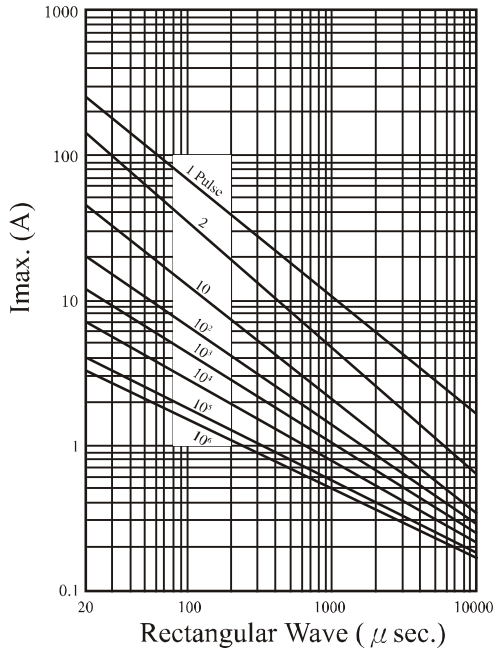
Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT05S180M65□△△	18	±20%	11	14	40	1	250	0.1	0.01	0.7	☆☆☆
JVT05S220L65□△△	22	±15%	14	18	48					0.8	☆☆☆
JVT05S270K65□△△	27	±10%	17	22	60					1.1	☆☆☆
JVT05S330K65□△△	33		20	26	73					1.3	☆☆☆
JVT05S390K65□△△	39		25	31	86					1.5	☆☆☆
JVT05S470K65□△△	47		30	38	104					1.8	☆☆☆
JVT05S560K65□△△	56		35	45	123					2.2	☆☆☆
JVT05S680K65□△△	68		40	56	150					2.6	☆☆☆
JVT05S820K65□△△	82		50	65	145	5	800	0.1	0.1	3.5	☆☆☆
JVT05S101K65□△△	100		60	85	175					4.5	☆☆☆
JVT05S121K65□△△	120		75	100	210					5.5	☆☆☆
JVT05S151K65□△△	150		95	125	260					6.5	☆☆☆
JVT05S181K65□△△	180		115	150	320					8.0	☆☆☆
JVT05S201K65□△△	200		130	170	355					8.5	☆☆☆
JVT05S221K65□△△	220		140	180	380					9.0	☆☆☆
JVT05S241K65□△△	240		150	200	415					10.5	☆☆☆
JVT05S271K65□△△	270		175	225	475					11.0	☆☆☆
JVT05S301K65□△△	300		195	250	525					12.0	☆☆☆
JVT05S331K65□△△	330		210	275	575					13.0	☆☆☆
JVT05S361K65□△△	360		230	300	620					16.0	☆☆☆
JVT05S391K65□△△	390		250	320	675					17.0	☆☆☆
JVT05S431K65□△△	430		275	350	745					20.0	☆☆☆
JVT05S471K65□△△	470		300	385	810					21.0	☆☆☆
JVT05S511K65□△△	510		320	418	880					22.0	☆☆☆
JVT05S561K65□△△	560		350	460	940					25.0	☆☆☆
JVT05S621K65□△△	620		385	505	1050					27.0	☆☆☆
JVT05S681K65□△△	680		420	560	1150					28.0	☆☆☆
JVT05S751K65□△△	750		460	615	1290					29.0	☆☆☆

※ JVT = Silicone Coating & Operating Temperature 125 C°

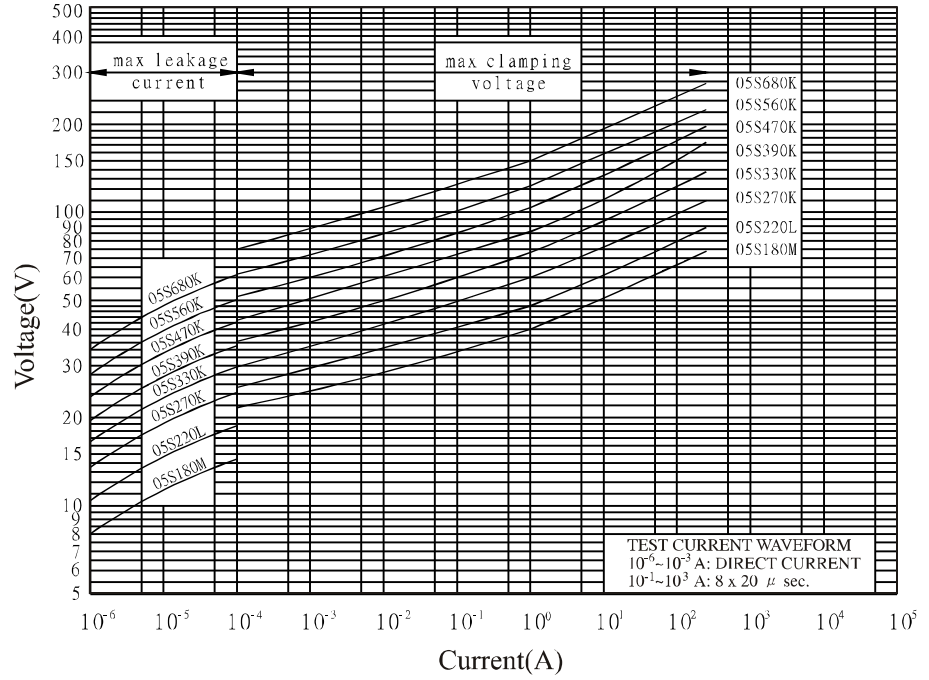
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

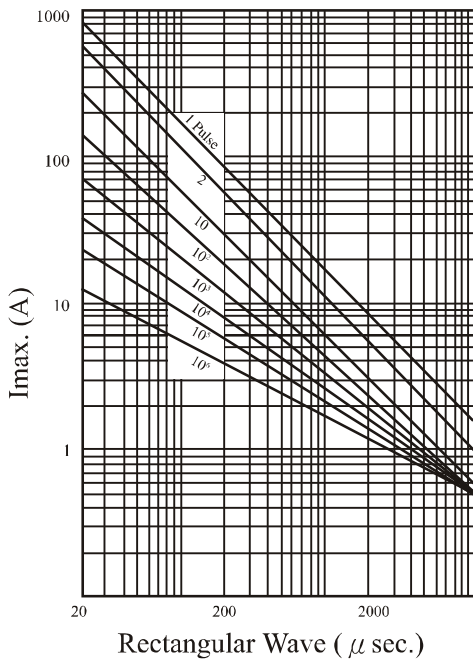
PULSE LIFETIME RATINGS - 5mm
5S180M~680K



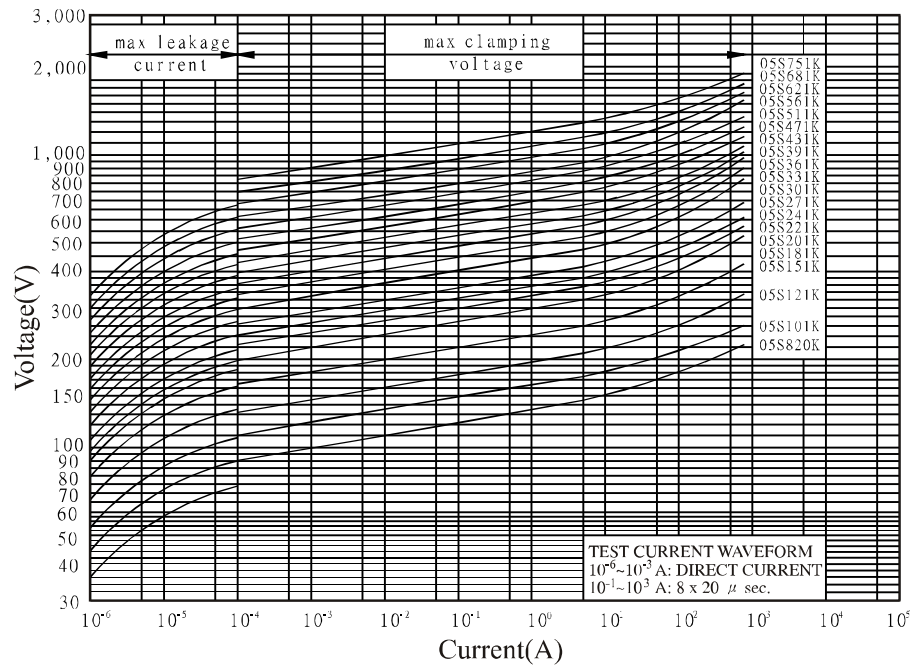
V-I CHARACTERISTIC CURVE - 5mm
5S180M~680K



5S820K~751K



5S820K~751K





RATING AND CHARACTERISTICS

High Surge Varistors - 7mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT07S180M65□△△	18	±20%	11	14	36	2.5	500	0.2	0.02	1.5	☆☆☆
JVT07S220L65□△△	22	±15%	14	18	43					1.7	☆☆☆
JVT07S270K65□△△	27	±10%	17	22	53					2.1	☆☆☆
JVT07S330K65□△△	33		20	26	65					2.8	☆☆☆
JVT07S390K65□△△	39		25	31	77					3.0	☆☆☆
JVT07S470K65□△△	47		30	38	93					3.8	☆☆☆
JVT07S560K65□△△	56		35	45	110					4.4	☆☆☆
JVT07S680K65□△△	68		40	56	135					5.4	☆☆☆
JVT07S820K65□△△	82		50	65	135	10	1750	0.5	0.25	7.0	☆☆☆
JVT07S101K65□△△	100		60	85	165					9.0	☆☆☆
JVT07S121K65□△△	120		75	100	200					11.0	☆☆☆
JVT07S151K65□△△	150		95	125	250					13.0	☆☆☆
JVT07S181K65□△△	180		115	150	300					16.0	☆☆☆
JVT07S201K65□△△	200		130	170	340					17.5	☆☆☆
JVT07S221K65□△△	220		140	180	360					19.0	☆☆☆
JVT07S241K65□△△	240		150	200	395					21.0	☆☆☆
JVT07S271K65□△△	270		175	225	455					24.0	☆☆☆
JVT07S301K65□△△	300		195	250	505					26.0	☆☆☆
JVT07S331K65□△△	330		210	275	550					28.0	☆☆☆
JVT07S361K65□△△	360		230	300	595					32.0	☆☆☆
JVT07S391K65□△△	390		250	320	650					35.0	☆☆☆
JVT07S431K65□△△	430		275	350	710					40.0	☆☆☆
JVT07S471K65□△△	470		300	385	775					42.0	☆☆☆
JVT07S511K65□△△	510		320	418	842					45.0	☆☆☆
JVT07S561K65□△△	560		350	460	920					51.0	☆☆☆
JVT07S621K65□△△	620		385	505	1025					54.0	☆☆☆
JVT07S681K65□△△	680		420	560	1120					56.0	☆☆☆
JVT07S751K65□△△	750		460	615	1240					58.0	☆☆☆
JVT07S781k65□△△	780		485	640	1290					59.0	☆☆☆
JVT07S821k65□△△	820		510	670	1355					60.0	☆☆☆

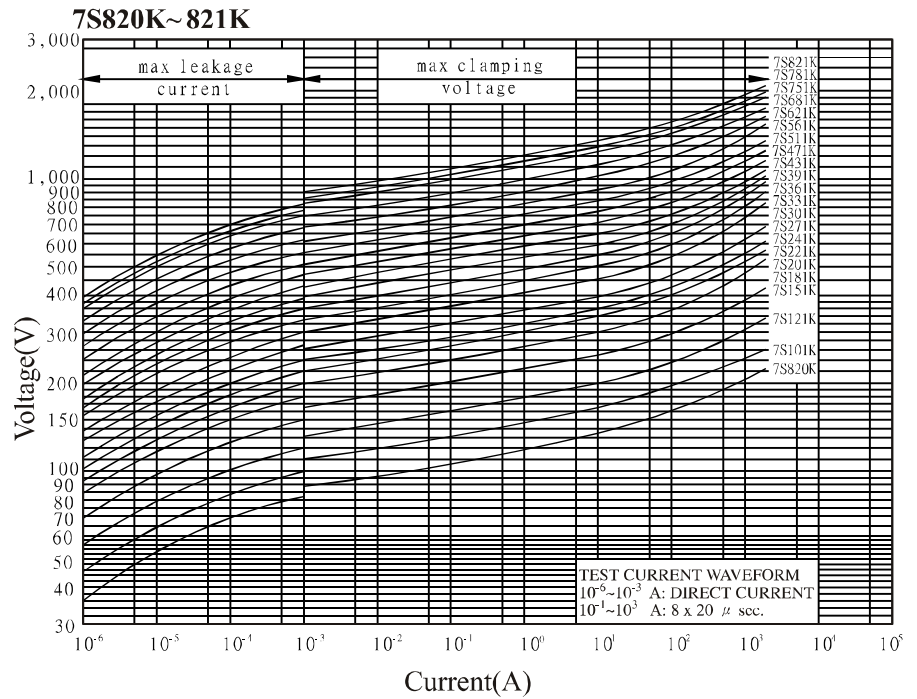
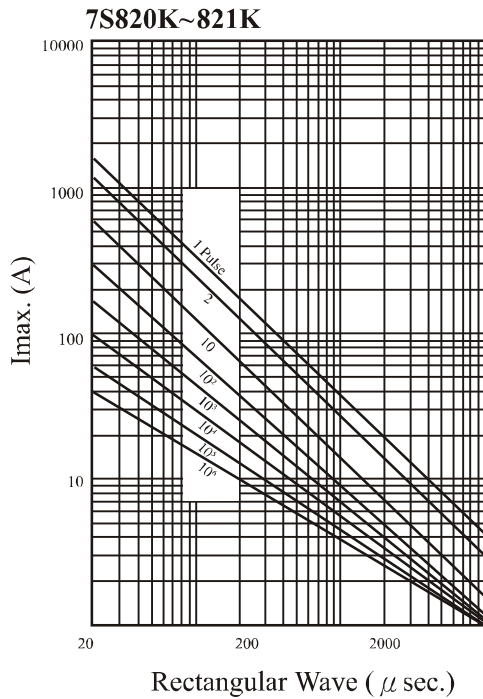
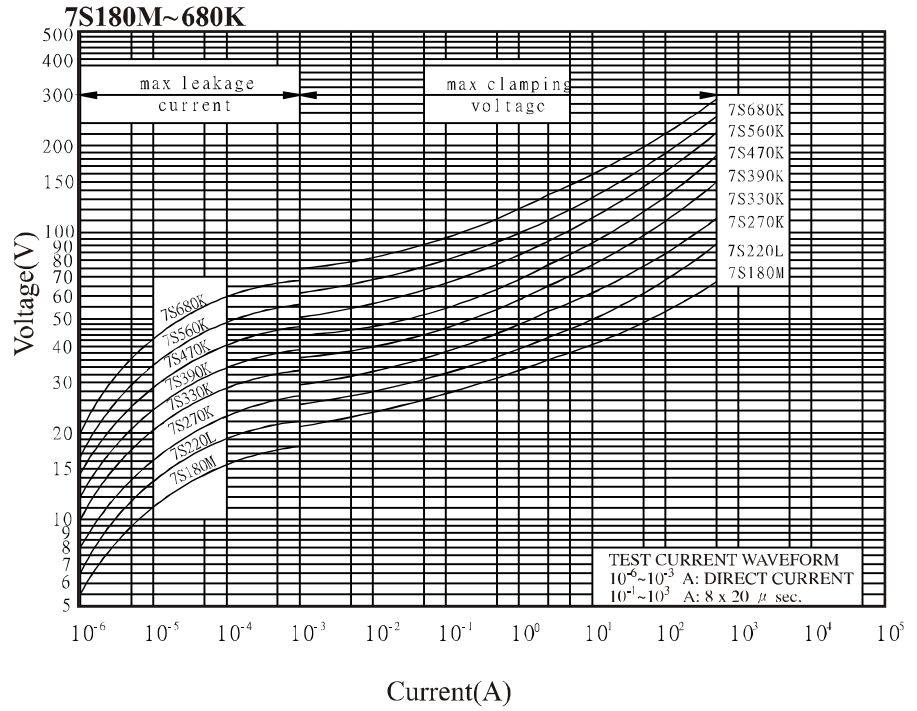
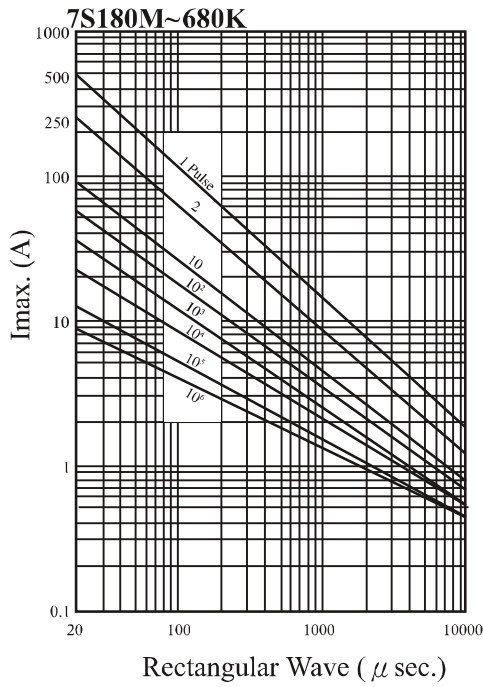
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

PULSE LIFETIME RATINGS - 7mm

V-I CHARACTERISTIC CURVE - 7mm





RATING AND CHARACTERISTICS

High Surge Varistors - 10mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT10S180M87□△△	18	±20%	11	14	36	5	1000	0.75	0.05	2.6	☆☆☆
JVT10S220L87□△△	22	±15%	14	18	43					3.2	☆☆☆
JVT10S270K87□△△	27	±10%	17	22	53					3.9	☆☆☆
JVT10S330K87□△△	33		20	26	65					4.8	☆☆☆
JVT10S390K87□△△	39		25	31	77					5.6	☆☆☆
JVT10S470K87□△△	47		30	38	93					6.8	☆☆☆
JVT10S560K87□△△	56		35	45	110					8.1	☆☆☆
JVT10S680K87□△△	68		40	56	135					9.8	☆☆☆
JVT10S820K87□△△	82		50	65	135	25	3500	1.5	0.4	14.0	☆☆☆
JVT10S101K87□△△	100		60	85	165					18.0	☆☆☆
JVT10S121K87□△△	120		75	100	200					22.0	☆☆☆
JVT10S151K87□△△	150		95	125	250					25.0	☆☆☆
JVT10S181K87□△△	180		115	150	300					32.0	☆☆☆
JVT10S201K87□△△	200		130	170	340					35.0	☆☆☆
JVT10S221K87□△△	220		140	180	360					39.0	☆☆☆
JVT10S241K87□△△	240		150	200	395					42.0	☆☆☆
JVT10S271K87□△△	270		175	225	455					49.0	☆☆☆
JVT10S301K87□△△	300		195	250	505					52.0	☆☆☆
JVT10S331K87□△△	330		210	275	550					58.0	☆☆☆
JVT10S361K87□△△	360		230	300	595					65.0	☆☆☆
JVT10S391K87□△△	390		250	320	650					70.0	☆☆☆
JVT10S431K87□△△	430		275	350	710					80.0	☆☆☆
JVT10S471K87□△△	470		300	385	775					85.0	☆☆☆
JVT10S511K87□△△	510		320	418	842					92.0	☆☆☆
JVT10S561K87□△△	560		350	460	920					102.0	☆☆☆
JVT10S621K87□△△	620		385	505	1025					107.0	☆☆☆
JVT10S681K87□△△	680		420	560	1120					112.0	☆☆☆
JVT10S751K87□△△	750		460	615	1240					115.0	☆☆☆
JVT10S781K87□△△	780		485	640	1290					116.0	☆☆☆
JVT10S821K87□△△	820		510	670	1355					118.0	☆☆☆
JVT10S911K87□△△	910		550	745	1500					127.0	☆☆☆
JVT10S102K87□△△	1000		625	825	1650					140.0	☆☆☆
JVT10S112K87□△△	1100		680	895	1815					155.0	☆☆☆

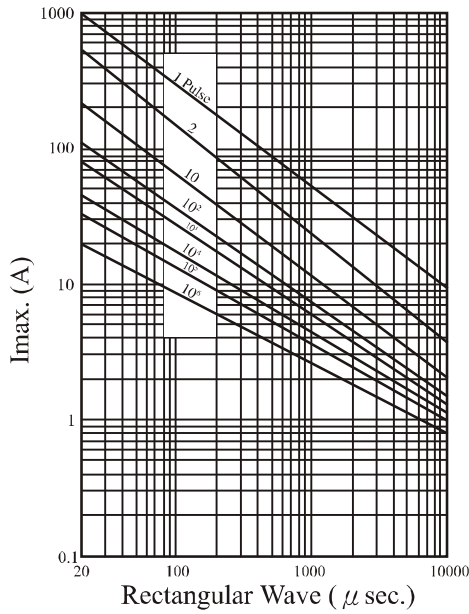
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

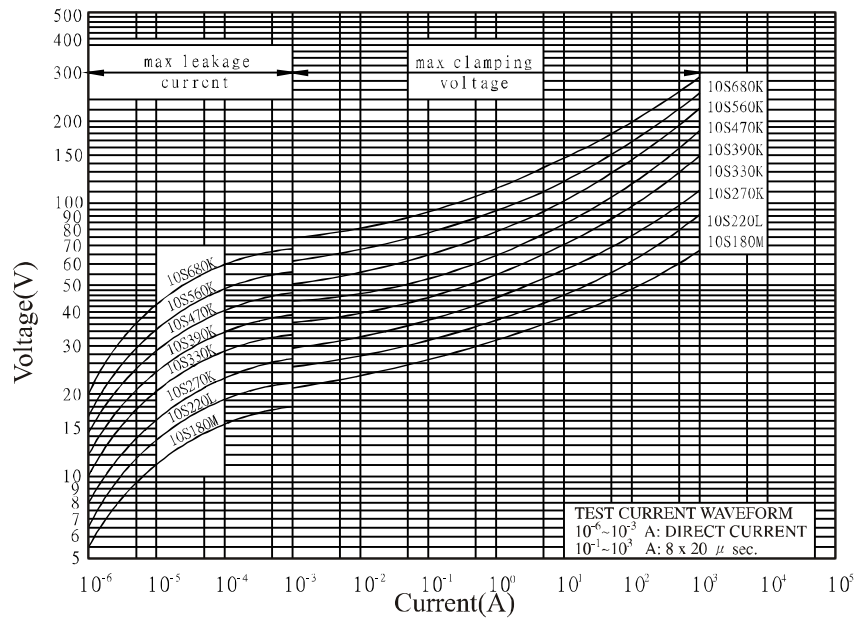
△ △ : Lead Length & Packing



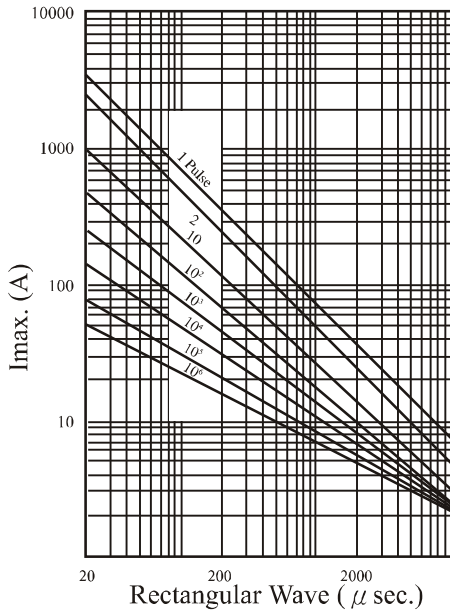
PULSE LIFETIME RATINGS - 10mm
10S180M~680K



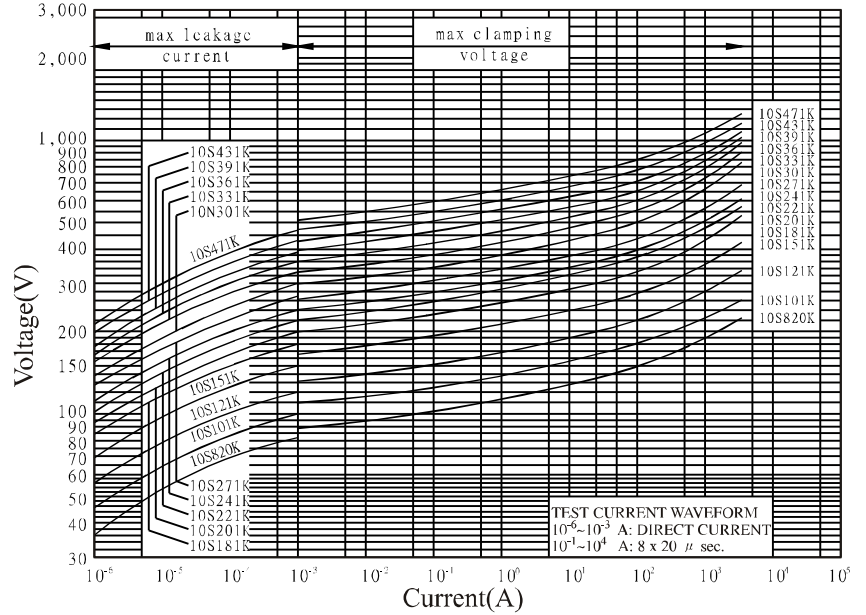
V-I CHARACTERISTIC CURVE - 10mm
10S180M~680K



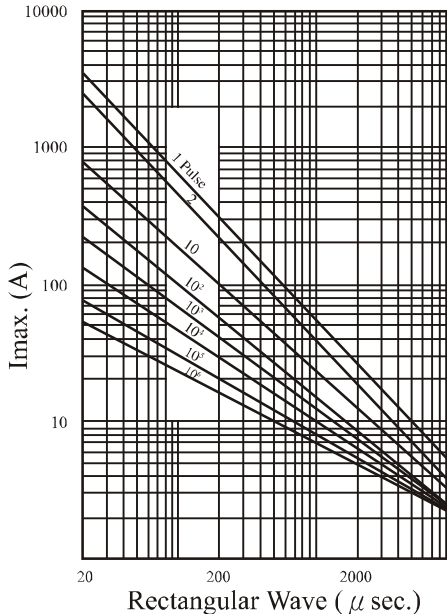
10S820K~471K



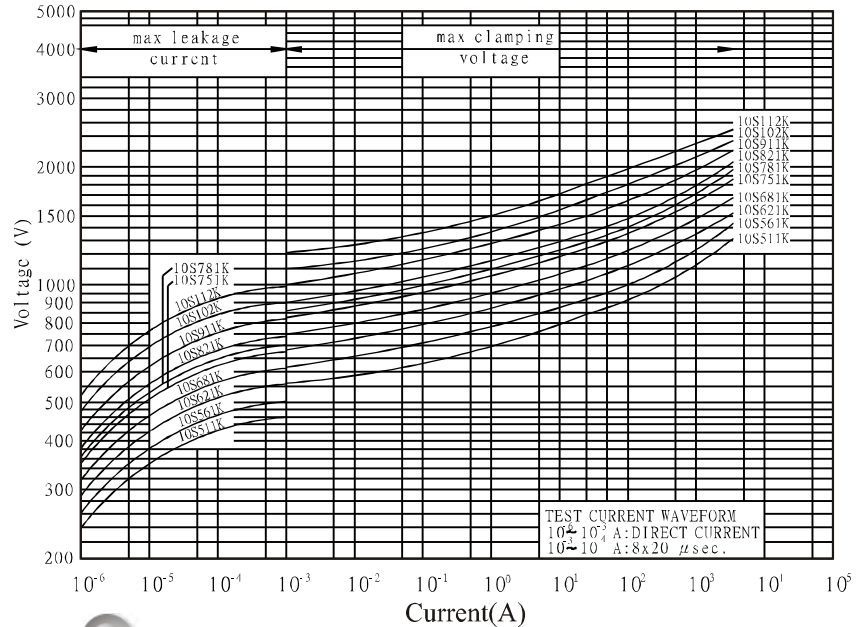
10S820K~471K



10S511K~112K



10S511K~112K





RATING AND CHARACTERISTICS

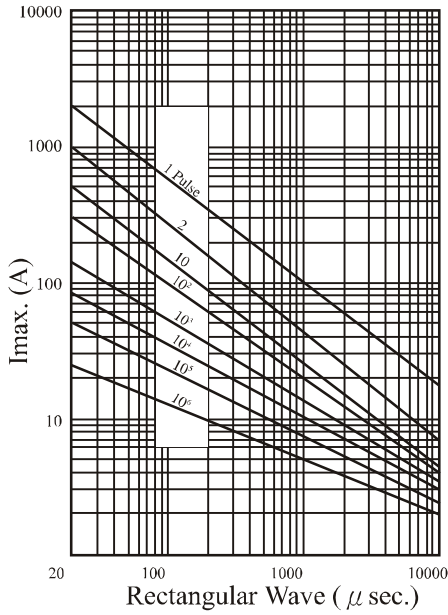
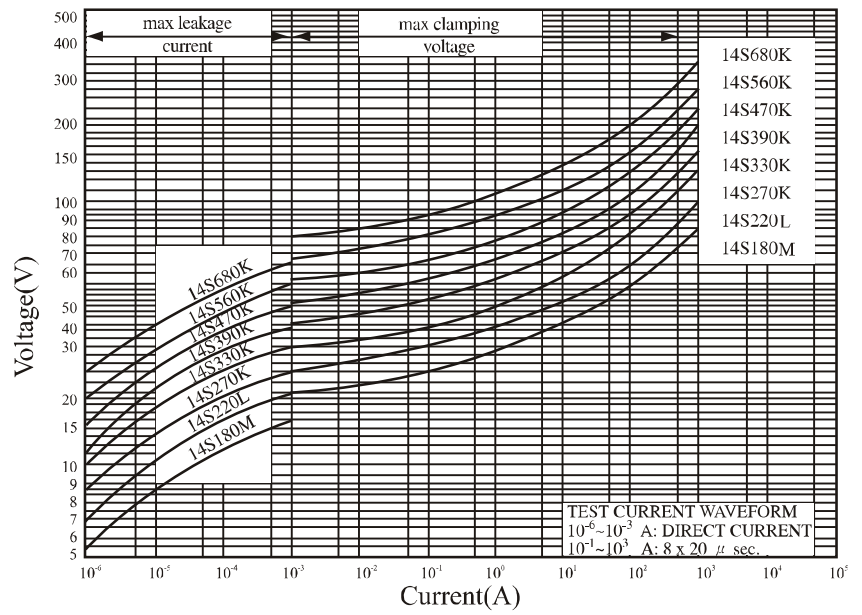
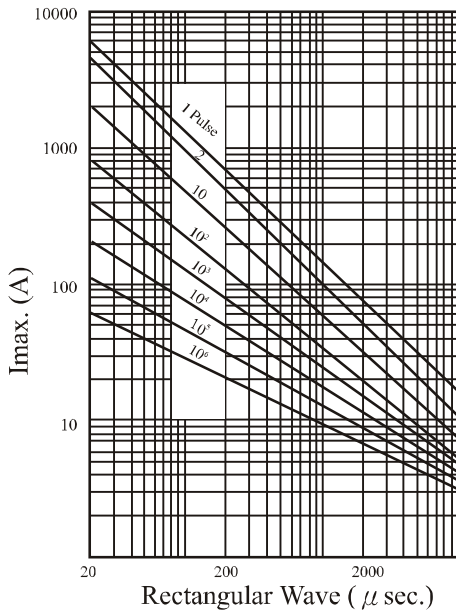
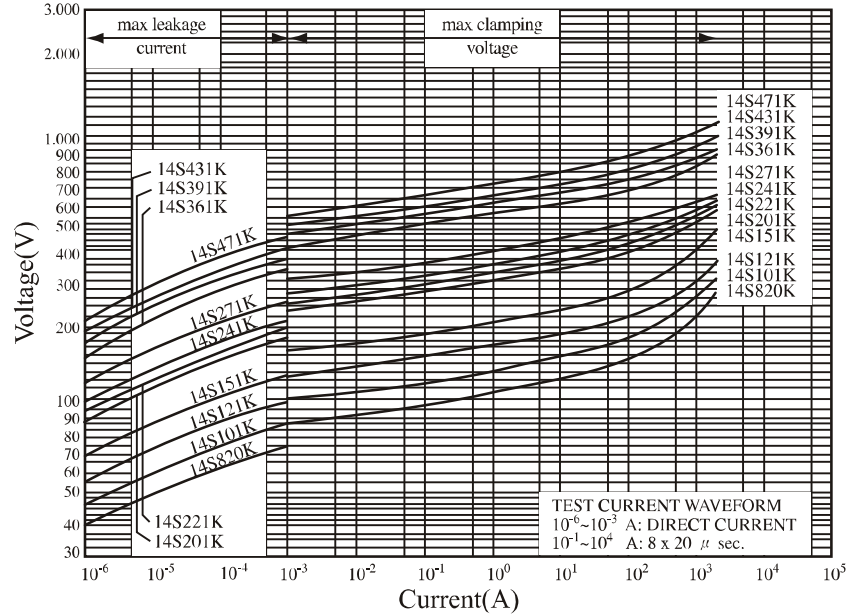
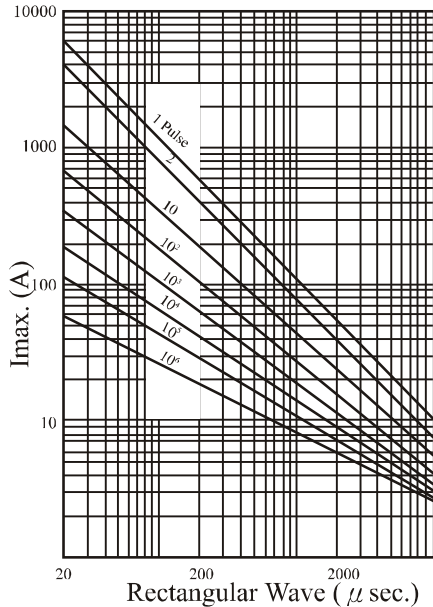
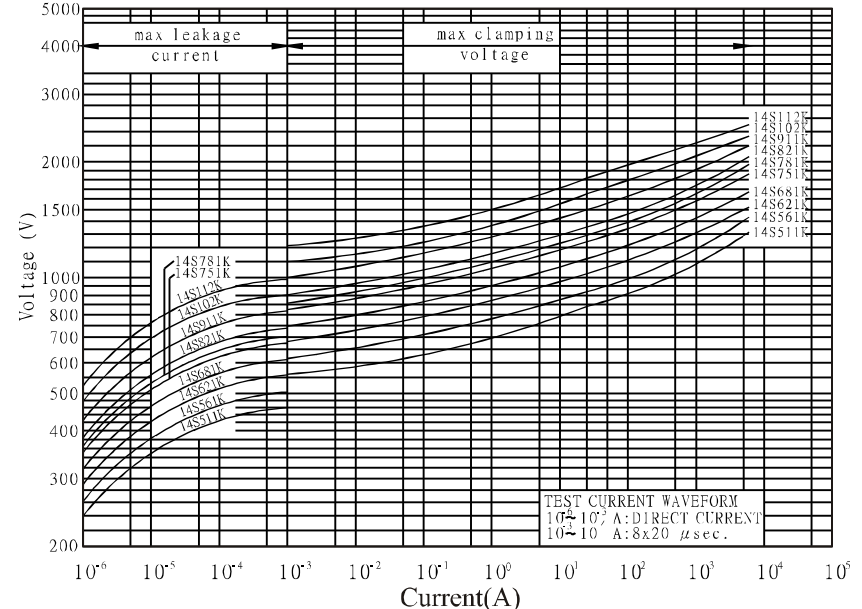
High Surge Varistors - 14mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT14S180M87□△△	18	±20%	11	14	36	10	2000	1	0.1	5.2	☆ ★ ☆
JVT14S220L87□△△	22	±15%	14	18	43					6.3	☆ ★ ☆
JVT14S270K87□△△	27	±10%	17	22	53					7.8	☆ ★ ☆
JVT14S330K87□△△	33		20	26	65					9.5	☆ ★ ☆
JVT14S390K87□△△	39		25	31	77					11.0	☆ ★ ☆
JVT14S470K87□△△	47		30	38	93					14.0	☆ ★ ☆
JVT14S560K87□△△	56		35	45	110					16.0	☆ ★ ☆
JVT14S680K87□△△	68		40	56	135					20.0	☆ ★ ☆
JVT14S820K87□△△	82		50	65	135	50	6000	3	0.6	28.0	☆ ★ ☆
JVT14S101K87□△△	100		60	85	165					36.0	☆ ★ ☆
JVT14S121K87□△△	120		75	100	200					44.0	☆ ★ ☆
JVT14S151K87□△△	150		95	125	250					53.0	☆ ★ ☆
JVT14S181K87□△△	180		115	150	300					65.0	☆ ★ ☆
JVT14S201K87□△△	200		130	170	340					70.0	☆ ★ ☆
JVT14S221K87□△△	220		140	180	360					78.0	☆ ★ ☆
JVT14S241K87□△△	240		150	200	395					84.0	☆ ★ ☆
JVT14S271K87□△△	270		175	225	455					99.0	☆ ★ ☆
JVT14S301K87□△△	300		195	250	505					105.0	☆ ★ ☆
JVT14S331K87□△△	330		210	275	550					115.0	☆ ★ ☆
JVT14S361K87□△△	360		230	300	595					130.0	☆ ★ ☆
JVT14S391K87□△△	390		250	320	650					140.0	☆ ★ ☆
JVT14S431K87□△△	430		275	350	710					155.0	☆ ★ ☆
JVT14S471K87□△△	470		300	385	775					175.0	☆ ★ ☆
JVT14S511K87□△△	510		320	418	842					190.0	☆ ★ ☆
JVT14S561K87□△△	560		350	460	920					205.0	☆ ★ ☆
JVT14S621K87□△△	620		385	505	1025					215.0	☆ ★ ☆
JVT14S681K87□△△	680		420	560	1120					225.0	☆ ★ ☆
JVT14S751K87□△△	750		460	615	1240					230.0	☆ ★ ☆
JVT14S781K87□△△	780		485	640	1290					233.0	☆ ★ ☆
JVT14S821K87□△△	820		510	670	1355					235.0	☆ ★ ☆
JVT14S911K87□△△	910		550	745	1500					255.0	☆ ★ ☆
JVT14S102K87□△△	1000		625	825	1650					283.0	☆ ★ ☆
JVT14S112K87□△△	1100		680	895	1815					310.0	☆ ★ ☆

※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

PULSE LIFETIME RATINGS - 14mm**14S180M~ 680K****V-I CHARACTERISTIC CURVE - 14mm****14S180M~ 680K****14S820K~ 471K****14S820K~ 471K****14S511K~112K****14S511K~112K**



RATING AND CHARACTERISTICS

High Surge Varistors - 20mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT20S220M11□△△	22	±20%	14	18	43	20	3000	2.0	0.2	16.0	☆ ★ ☆
JVT20S270M11□△△	27		17	22	53					19.0	☆ ★ ☆
JVT20S330M11□△△	33		20	26	65					24.0	☆ ★ ☆
JVT20S390L11□△△	39	±15%	25	31	77					28.0	☆ ★ ☆
JVT20S470L11□△△	47		30	38	93					34.0	☆ ★ ☆
JVT20S560L11□△△	56		35	45	110					41.0	☆ ★ ☆
JVT20S680L11□△△	68		40	56	135					49.0	☆ ★ ☆
JVT20S820L11□△△	82		50	65	135	100	10000	4.0	1.0	56.0	☆ ★ ☆
JVT20S101K11□△△	100	±10%	60	85	165					72.0	☆ ★ ☆
JVT20S121K11□△△	120		75	100	200					88.0	☆ ★ ☆
JVT20S151K11□△△	150		95	125	250					106.0	☆ ★ ☆
JVT20S181K11□△△	180		115	150	300					130.0	☆ ★ ☆
JVT20S201K11□△△	200		130	170	340					140.0	☆ ★ ☆
JVT20S221K11□△△	220		140	180	360					155.0	☆ ★ ☆
JVT20S241K11□△△	240		150	200	395					168.0	☆ ★ ☆
JVT20S271K11□△△	270		175	225	455					190.0	☆ ★ ☆
JVT20S301K11□△△	300		195	250	505					210.0	☆ ★ ☆
JVT20S331K11□△△	330		210	275	550					228.0	☆ ★ ☆
JVT20S361K11□△△	360		230	300	595					255.0	☆ ★ ☆
JVT20S391K11□△△	390		250	320	650					275.0	☆ ★ ☆
JVT20S431K11□△△	430		275	350	710					303.0	☆ ★ ☆
JVT20S471K11□△△	470		300	385	775					350.0	☆ ★ ☆
JVT20S511K11□△△	510		320	418	842					382.0	☆ ★ ☆
JVT20S561K11□△△	560		350	460	920					410.0	☆ ★ ☆
JVT20S621K11□△△	620		385	505	1025					420.0	☆ ★ ☆
JVT20S681K11□△△	680		420	560	1120					430.0	☆ ★ ☆
JVT20S751K11□△△	750		460	615	1240					440.0	☆ ★ ☆
JVT20S781K11□△△	780		485	640	1290					450.0	☆ ★ ☆
JVT20S821K11□△△	820		510	670	1355					460.0	☆ ★ ☆
JVT20S911K11□△△	910		550	745	1500					510.0	☆ ★ ☆
JVT20S102K11□△△	1000		625	825	1650					566.0	☆ ★ ☆
JVT20S112K11□△△	1100		680	895	1815					620.0	☆ ★ ☆

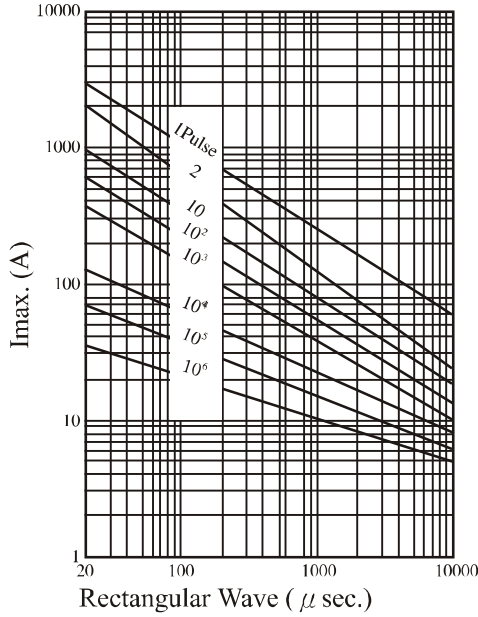
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

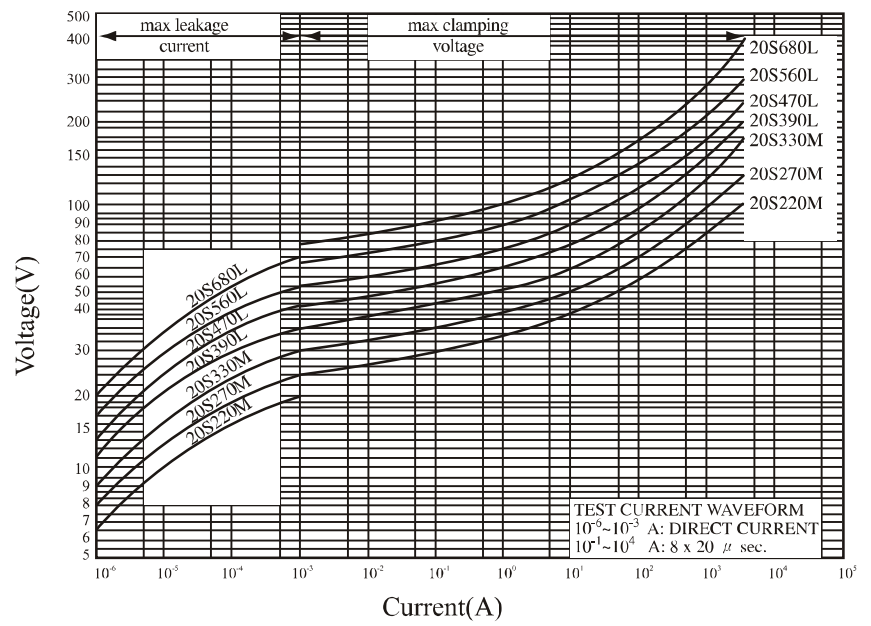
PULSE LIFETIME RATINGS - 20mm

20S220M ~ 680L

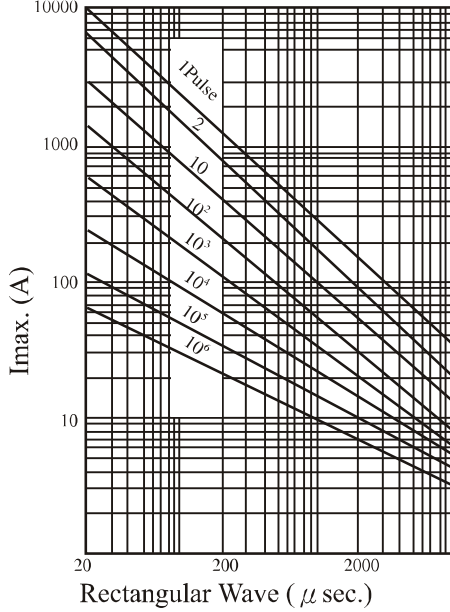


V-I CHARACTERISTIC CURVE - 20mm

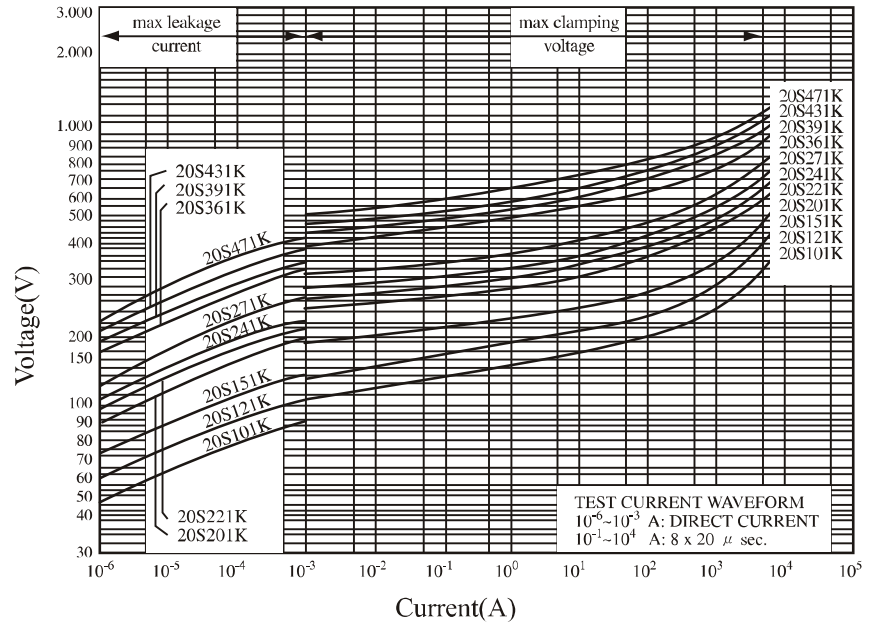
20S220M ~ 680L



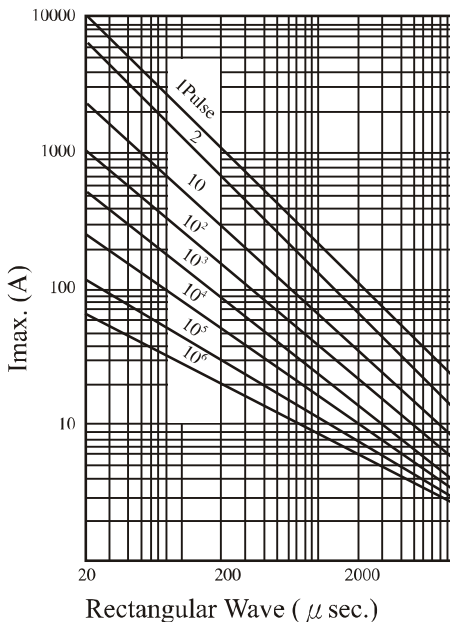
20S101K ~ 471K



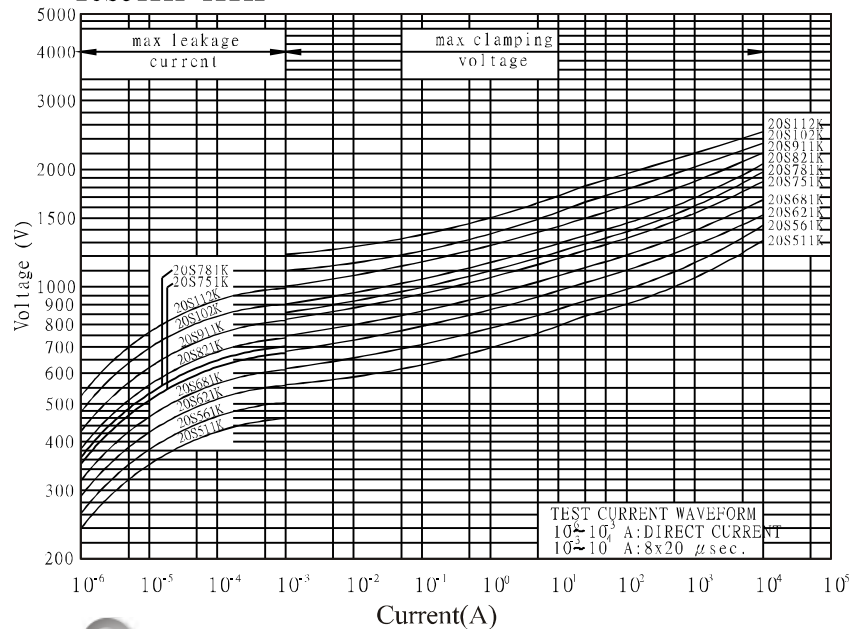
20S101K ~ 471K



20S511K ~ 112K



20S511K ~ 112K





RATING AND CHARACTERISTICS

Ultra Surge Varistors - 7mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT07U181K65□△△	180	±10%	115	150	300	10	1800	1	0.25	19	☆☆☆
JVT07U201K65□△△	200		130	170	340					21	☆☆☆
JVT07U221K65□△△	220		140	180	360					23	☆☆☆
JVT07U241K65□△△	240		150	200	395					25	☆☆☆
JVT07U271K65□△△	270		175	225	455					28	☆☆☆
JVT07U301K65□△△	300		195	250	505					32	☆☆☆
JVT07U331K65□△△	330		210	275	550					34	☆☆☆
JVT07U361K65□△△	360		230	300	595					37	☆☆☆
JVT07U391K65□△△	390		250	320	650					40	☆☆☆
JVT07U431K65□△△	430		275	350	710					46	☆☆☆
JVT07U471K65□△△	470		300	385	775					49	☆☆☆
JVT07U511K65□△△	510		320	418	842					54	☆☆☆
JVT07U561K65□△△	560		350	460	920					55	☆☆☆
JVT07U621K65□△△	620		385	505	1025					59	☆☆☆
JVT07U681K65□△△	680		420	560	1120					62	☆☆☆
JVT07U751K65□△△	750		460	615	1240					66	☆☆☆
JVT07U781k65□△△	780		485	640	1290					68	☆☆☆
JVT07U821k65□△△	820		510	670	1355					71	☆☆☆

Ultra Surge Varistors - 10mm

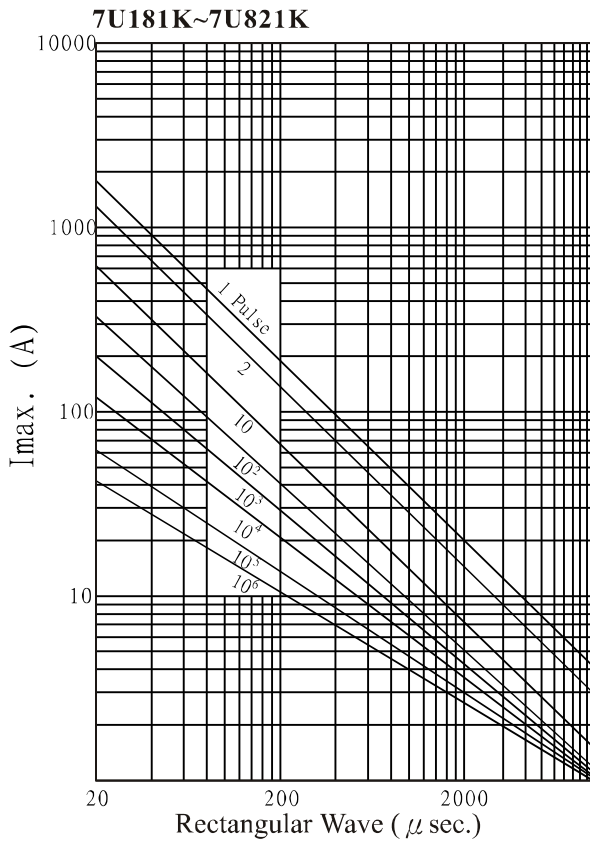
Ordering Code	Varistor Voltage at 0.1mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT10U181K87□△△	180	±10%	115	150	300	25	4500	2	0.4	47	☆☆☆
JVT10U201K87□△△	200		130	170	340					52	☆☆☆
JVT10U221K87□△△	220		140	180	360					58	☆☆☆
JVT10U241K87□△△	240		150	200	395					64	☆☆☆
JVT10U271K87□△△	270		175	225	455					67	☆☆☆
JVT10U301K87□△△	300		195	250	505					70	☆☆☆
JVT10U331K87□△△	330		210	275	550					72	☆☆☆
JVT10U361K87□△△	360		230	300	595					76	☆☆☆
JVT10U391K87□△△	390		250	320	650					82	☆☆☆
JVT10U431K87□△△	430		275	350	710					93	☆☆☆
JVT10U471K87□△△	470		300	385	775					99	☆☆☆
JVT10U511K87□△△	510		320	418	842					107	☆☆☆
JVT10U561K87□△△	560		350	460	920					113	☆☆☆
JVT10U621K87□△△	620		385	505	1025					125	☆☆☆
JVT10U681K87□△△	680		420	560	1120					128	☆☆☆
JVT10U751K87□△△	750		460	615	1240					134	☆☆☆
JVT10U781k87□△△	780		485	640	1290					139	☆☆☆
JVT10U821k87□△△	820		510	670	1355					146	☆☆☆
JVT10U911k87□△△	910		550	745	1500					152	☆☆☆
JVT10U102K87□△△	1000		625	825	1650					170	☆☆☆
JVT10U112K87□△△	1100		680	895	1815					180	☆☆☆

※ JVT = Silicone Coating & Operating Temperature 125 C°

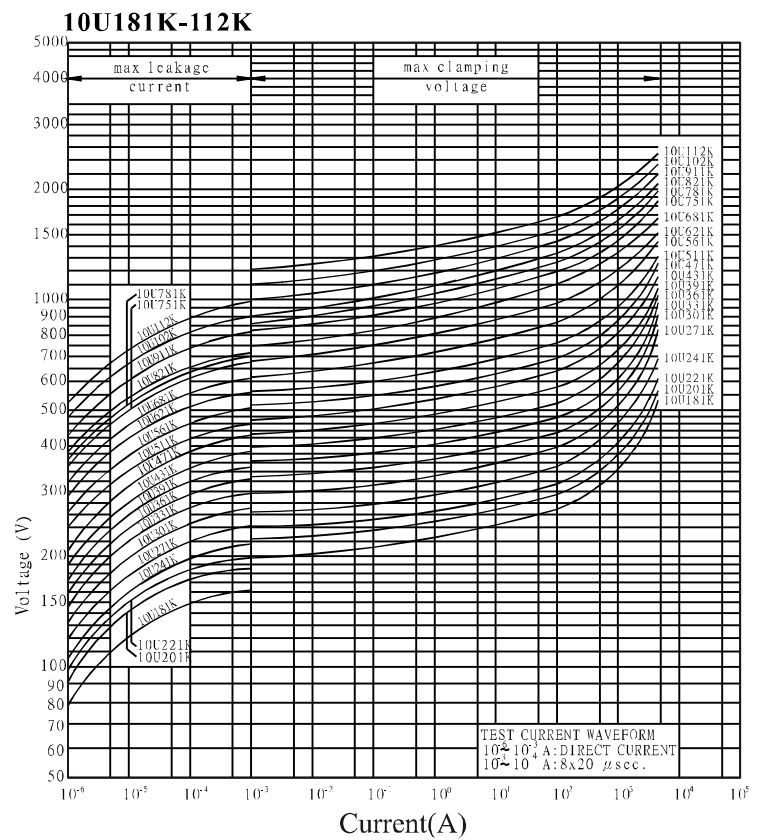
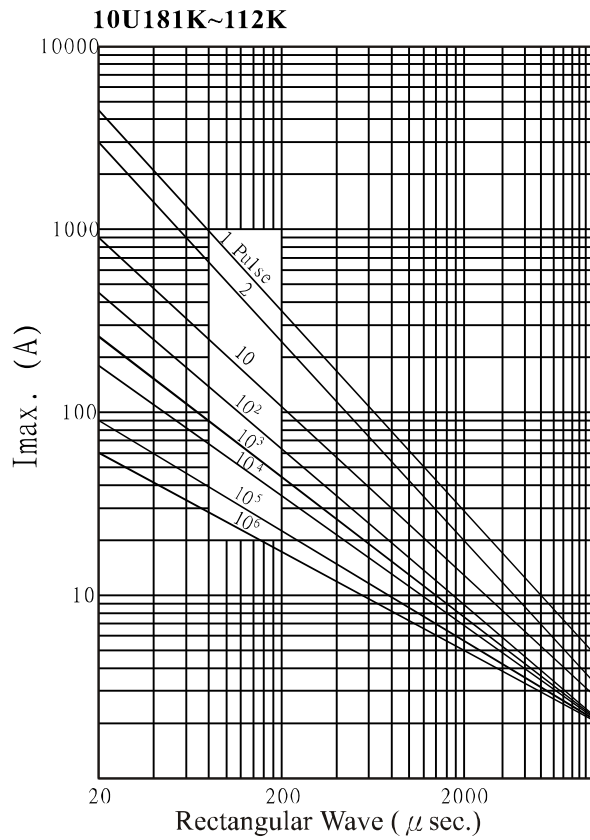
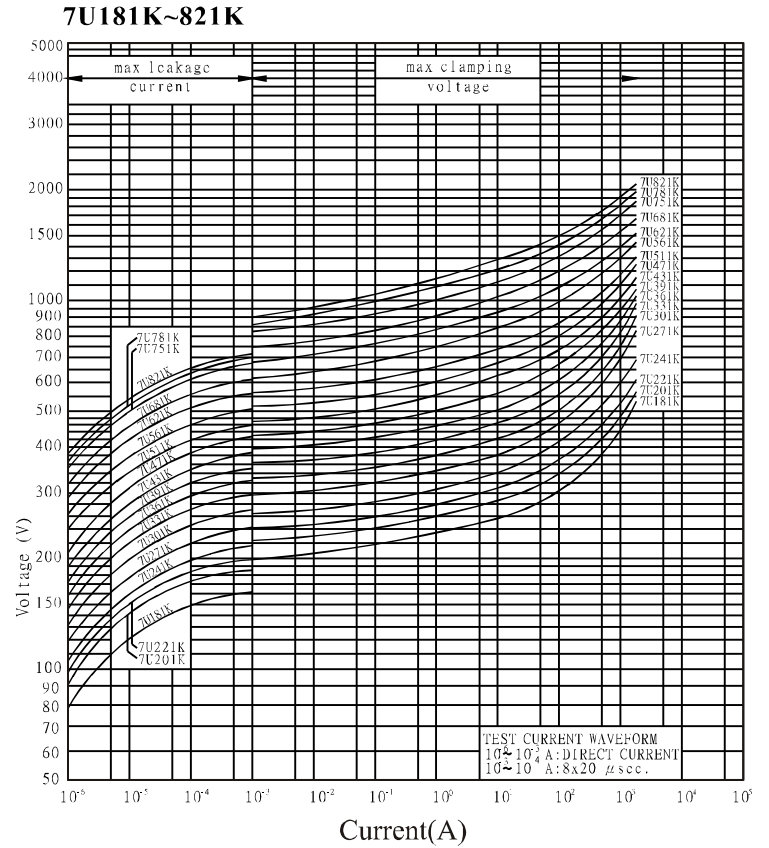
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

PULSE LIFETIME RATINGS - 7mm



V-I CHARACTERISTIC CURVE - 7mm





RATING AND CHARACTERISTICS

Ultra Surge Varistors - 14mm

Ordering Code	Varistor Voltage at 1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT14U181K87□△△	180	±10%	115	150	300	50	8000	3.0	0.6	60	☆☆☆
JVT14U201K87□△△	200		130	170	340					82	☆☆☆
JVT14U221K87□△△	220		140	180	360					90	☆☆☆
JVT14U241K87□△△	240		150	200	395					98	☆☆☆
JVT14U271K87□△△	270		175	225	455					116	☆☆☆
JVT14U301K87□△△	300		195	250	505					128	☆☆☆
JVT14U331K87□△△	330		210	275	550					140	☆☆☆
JVT14U361K87□△△	360		230	300	595					158	☆☆☆
JVT14U391K87□△△	390		250	320	650					170	☆☆☆
JVT14U431K87□△△	430		275	350	710					185	☆☆☆
JVT14U471K87□△△	470		300	385	775					205	☆☆☆
JVT14U511K87□△△	510		320	418	842					220	☆☆☆
JVT14U561K87□△△	560		350	460	920					240	☆☆☆
JVT14U621K87□△△	620		385	505	1025					250	☆☆☆
JVT14U681K87□△△	680		420	560	1120					260	☆☆☆
JVT14U751K87□△△	750		460	615	1240					270	☆☆☆
JVT14U781k87□△△	780		485	640	1290					274	☆☆☆
JVT14U821k87□△△	820		510	670	1355					280	☆☆☆
JVT14U911k87□△△	910		550	745	1500					295	☆☆☆
JVT14U102K87□△△	1000		625	825	1650					335	☆☆☆
JVT14U112K87□△△	1100		680	895	1815					360	☆☆☆

Ultra Surge Varistors - 20mm

Ordering Code	Varistor Voltage at 0.1mA		Maximum Allowable Voltage		Maximum Clamping Voltage		Withstanding Surge Current (8/20us)	Nominal Discharge Current (8/20us)	Rated Wattage	Energy (10/1000us)	Certification (ref to p.54)
	DC (V)	Tolerance	AC rms (V)	DC (V)	V@ ic (V)	ic (A)	1 Time (A)	In (kA)	(W)	(J)	  
JVT20U181K87□△△	180	±10%	115	150	300	100	13000	5.0	1.0	152	☆☆☆
JVT20U201K87□△△	200		130	170	340					175	☆☆☆
JVT20U221K87□△△	220		140	180	360					185	☆☆☆
JVT20U241K87□△△	240		150	200	395					198	☆☆☆
JVT20U271K87□△△	270		175	225	455					220	☆☆☆
JVT20U301K87□△△	300		195	250	505					245	☆☆☆
JVT20U331K87□△△	330		210	275	550					268	☆☆☆
JVT20U361K87□△△	360		230	300	595					315	☆☆☆
JVT20U391K87□△△	390		250	320	650					350	☆☆☆
JVT20U431K87□△△	430		275	350	710					380	☆☆☆
JVT20U471K87□△△	470		300	385	775					405	☆☆☆
JVT20U511K87□△△	510		320	418	842					445	☆☆☆
JVT20U561K87□△△	560		350	460	920					475	☆☆☆
JVT20U621K87□△△	620		385	505	1025					490	☆☆☆
JVT20U681K87□△△	680		420	560	1120					500	☆☆☆
JVT20U751K87□△△	750		460	615	1240					525	☆☆☆
JVT20U781k87□△△	780		485	640	1290					530	☆☆☆
JVT20U821k87□△△	820		510	670	1355					545	☆☆☆
JVT20U911k87□△△	910		550	745	1500					595	☆☆☆
JVT20U102K87□△△	1000		625	825	1650					650	☆☆☆
JVT20U112K87□△△	1100		680	895	1815					720	☆☆☆

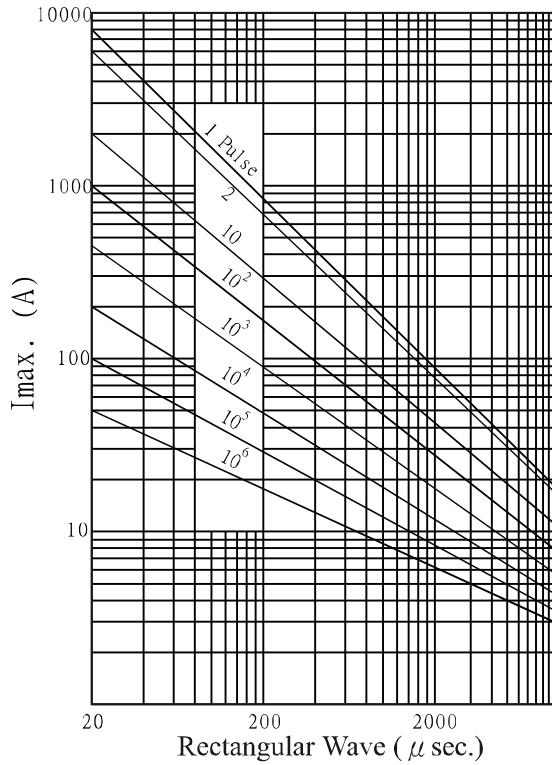
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink, P = Straight)

△△ : Lead Length & Packing

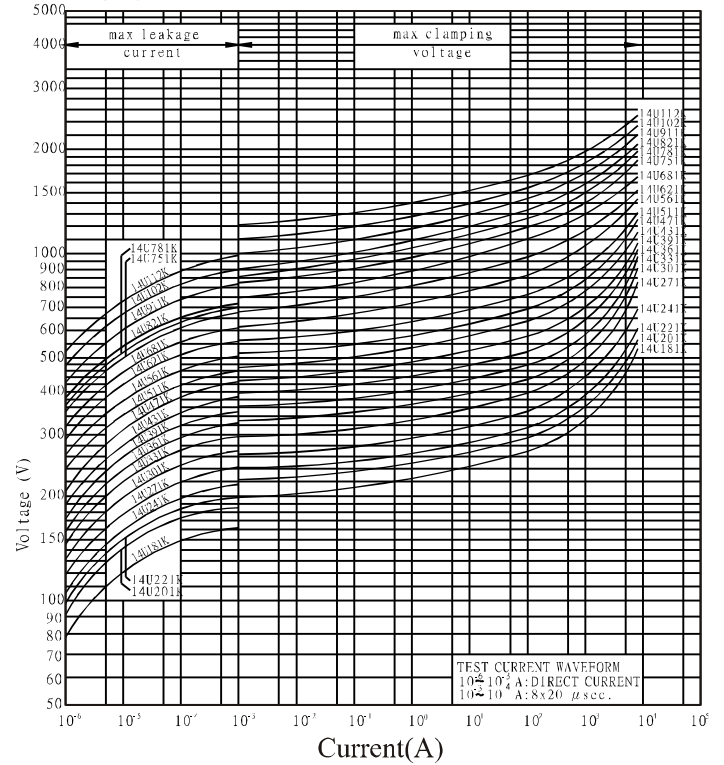
PULSE LIFETIME RATINGS - 14mm

14U181K~112K

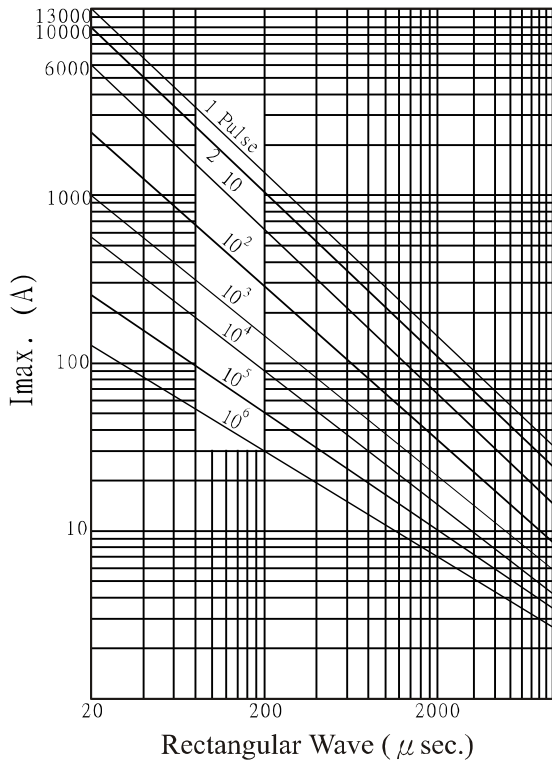


V-I CHARACTERISTIC CURVE - 14mm

14U181K~112K



20U181K~112K



20U181K~112K

