

## Disc Varistors with Radial Leads

### Description

Disc Varistors with Radial Leads are standard metal oxide varistors designed mainly for electronic applications. They offer excellent surge protection for use in PCBs, computers, power supplies, telecommunication network equipment and motor controls. The advantages of Disc Varistors with Radial Leads are: radial leads, structure for PCB mounting, UL and CSA recognized, Tape or Ammo packing for automatic insertion.



### Main Features

Wide Operating Voltage Range $V_{RMS}$	11 V to 1100 V
Six Model Sizes Available	5, 7, 10, 14, 18, 20 mm
High Energy Absorption Capability $W_{max}(2\text{ ms})$	220 J to 1850 J
High Peak Current Capability $I_{max}(8/20\ \mu\text{s})$	100 A to 8000 A
Wire Terminals	for PCB Mounting
Other Designs Available	(Crimped Leads, Taped and Reeled or Ammo Packed)
<b>UL Specification #1449, File No.: E103662;</b>	Models K5, K7, K10, K14, K20 prefixed by V20, V25, V30, V35, V40, V50, V60, V75, V95, V130, V140, V150, V175, V230, V250, V275, V300, V385, V420, V460, V510
<b>CSA Recognized File No.: Lr109328;</b>	Models K7, K10, K14, K20 prefixed by V130 - V350

### General Technical Data

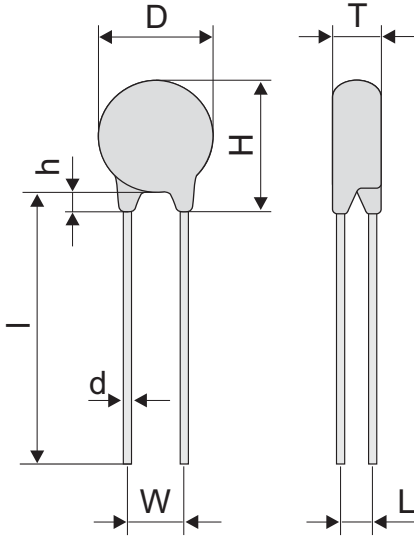
Climatic Category	40/85/56	in accordance with IEC 68-2-3
LCT	-40°C	
UCT	+85°C	
Damp Heat, Steady State (93% r.h., 40°C)	56 days	in accordance with IEC 68-1
Operating Temperature	-40 ... +85°C	in accordance with CECC 42 000
Storage Temperature	-40 ... +125°C	
Electric Strength	≥ 2.5 kV	in accordance with CECC 42 000
Insulation Resistance	≥ 1.0 GΩ	in accordance with CECC 42 000
Response Time	< 25 ns	

### Type Designation

<b>V</b>	<b>275</b>	<b>K</b>	<b>10</b>	<b>T</b>	<b>A</b>	<b>C2</b>	<b>R5</b>
VARSI Metal Oxide Varistor	Max. AC Operating Voltage	Tolerance of Varistor Voltage $V_N$	Model Size (Disc Diameter)			Lead Style	Lead Space
		J: ± 5 % K: ± 10 % L: ± 15 % M: ± 20 % S: Other	5: ø 5 mm 7: ø 7 mm 10: ø 10 mm 14: ø 14 mm 18: ø 18 mm 20: ø 20 mm			: Straight Leads C1: Outside Kinked C2: Inside Kinked	R5 : 5 mm R75: 7.5 mm R10: 10 mm
						<b>Packing</b> A: Ammopack R: Reel	
				Taped			

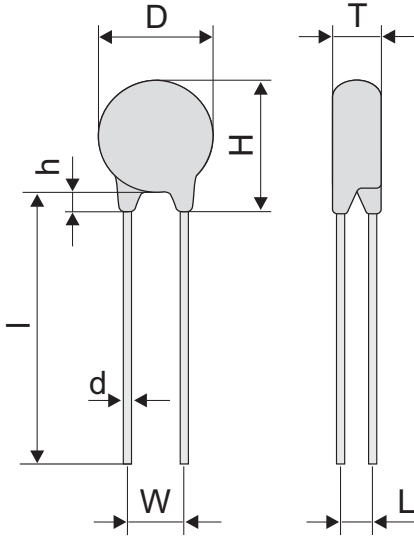
**Table of Standard Values**

Part Number	Maximum Ratings TA = +85°C (+185°F)					Characteristics TA = +25°C (+77°F)					V - I Characteristic Page	Pulse Rating Page
	Operating Voltage		Average Power Dissipation P <sub>max</sub> (W)	Permissible Peak Current (8/20 μs) I <sub>max</sub> (A)	Energy Absorption (2 ms) W <sub>max</sub> (J)	Varistor Voltage (1 mA) V <sub>N</sub> (V)	Standard Tolerance of V <sub>N</sub> (±%)	Maximum Clamping Voltage at Test Current (8/20 μs)		Typical Capacitance f=1kHz C (pF)		
	RMS Voltage V <sub>RMS</sub> (V)	DC Voltage V <sub>DC</sub> (V)						V <sub>C</sub> (V)	I (A)			
V11L5	11	14	0.01	100	0.4	18	15	36	1.0	1600	8	11
V11L7	11	14	0.02	250	0.9	18	15	36	2.5	3300	8	11
V11L10	11	14	0.05	500	1.8	18	15	36	5.0	7300	9	11
V11L14	11	14	0.10	1000	3.3	18	15	36	10.0	12000	9	12
V11L20	11	14	0.20	2000	10.0	18	15	36	20.0	21000	10	12
V14L5	14	18	0.01	100	0.5	22	15	43	1.0	1400	8	11
V14L7	14	18	0.02	250	1.0	22	15	43	2.5	2500	8	11
V14L10	14	18	0.05	500	2.0	22	15	43	5.0	5600	9	11
V14L14	14	18	0.10	1000	4.0	22	15	43	10.0	10000	9	12
V14L20	14	18	0.20	2000	12.0	22	15	43	20.0	19000	10	12
V17L5	17	22	0.01	100	0.6	27	15	53	1.0	1100	8	11
V17L7	17	22	0.02	250	1.2	27	15	53	2.5	2000	8	11
V17L10	17	22	0.05	500	2.6	27	15	53	5.0	4000	9	11
V17L14	17	22	0.10	1000	5.0	27	15	53	10.0	8000	9	12
V17L20	17	22	0.20	2000	14.0	27	15	53	20.0	16000	10	12
V20K5	20	26	0.01	100	0.7	33	10	65	1.0	8504	8	11
V20K7	20	26	0.02	250	1.4	33	10	65	2.5	1500	8	11
V20K10	20	26	0.05	500	3.1	33	10	65	5.0	3100	9	11
V20K14	20	26	0.10	1000	6.0	33	10	65	10.0	6400	9	12
V20K20	20	26	0.20	2000	18.0	33	10	65	20.0	14000	10	12
V25K5	25	31	0.01	100	0.8	39	10	77	1.0	700	8	11
V25K7	25	31	0.02	250	1.6	39	10	77	2.5	1300	8	11
V25K10	25	31	0.05	500	3.8	39	10	77	5.0	2800	9	11
V25K14	25	31	0.10	1000	7.0	39	10	77	10.0	5700	9	12
V25K20	25	31	0.20	2000	22.0	39	10	77	20.0	11000	10	12
V30K5	30	38	0.01	100	0.9	47	10	93	1.0	600	8	11
V30K7	30	38	0.02	250	2.0	47	10	93	2.5	1100	8	11
V30K10	30	38	0.05	500	4.5	47	10	93	5.0	2200	9	11
V30K14	30	38	0.10	1000	9.0	47	10	93	10.0	45005	9	12
V30K20	30	38	0.20	2000	26.0	47	10	93	20.0	9500	10	12
V35K5	35	45	0.01	100	1.2	56	10	110	1.0	500	8	11
V35K7	35	45	0.02	250	2.6	56	10	110	2.5	950	8	11
V35K10	35	45	0.05	500	5.5	56	10	110	5.0	1900	9	11
V35K14	35	45	0.10	1000	10.0	56	10	110	10.0	4000	9	12
V35K20	35	45	0.20	2000	33.0	56	10	110	20.0	8200	10	12
V40K5	40	56	0.01	100	1.3	68	10	135	1.0	400	8	11
V40K7	40	56	0.02	250	3.0	68	10	135	2.5	750	8	11
V40K10	40	56	0.05	500	6.5	68	10	135	5.0	1600	9	11
V40K14	40	56	0.10	1000	13.0	68	10	135	10.0	3000	9	12
V40K20	40	56	0.20	2000	37.0	68	10	135	20.0	6100	10	12
V50K5	50	65	0.10	400	1.8	82	10	135	5.0	550	8	12
V50K7	50	65	0.25	1200	4.3	82	10	135	10.0	550	8	13
V50K10	50	65	0.40	2500	8.5	82	10	135	25.0	1100	9	13
V50K14	50	65	0.60	4500	15.0	82	10	135	50.0	2300	9	13
V50K20	50	65	1.00	8000	27.0	82	10	135	100.0	4900	10	14
V60K5	60	85	0.10	400	2.2	100	10	165	5.0	250	8	12
V60K7	60	85	0.25	1200	4.9	100	10	165	10.0	500	8	13
V60K10	60	85	0.40	2500	10.0	100	10	165	25.0	1000	9	13
V60K14	60	85	0.60	4500	17.0	100	10	165	50.0	2100	9	13
V60K20	60	85	1.00	6500	33.0	100	10	165	100.0	4500	10	14
V75K5	75	100	0.10	400	2.6	120	10	200	5.0	200	8	12
V75K7	75	100	0.25	1200	6.0	120	10	200	10.0	450	8	13
V75K10	75	100	0.40	2500	12.0	120	10	200	25.0	900	9	13
V75K14	75	100	0.60	4500	21.0	120	10	200	50.0	1900	9	13
V75K20	75	100	1.00	6500	40.0	120	10	200	100.0	3800	10	14

Dimensions								Part Number	
$D_{max}$ (mm)	$H_{max}$ (mm)	$T_{max}$ (mm)	$W \pm 1$ (mm)	$L \pm 1$ (mm)	$h_{max}$ (mm)	$l_{max}$ (mm)	$d \pm 0.05$ (mm)		
7.5	9.5	3.5	5.0	1.2	2	30	0.6	V11L5	
9.0	11.0	3.5	5.0	1.2	2	30	0.6	V11L7	
13.5	16.5	3.9	7.5	1.2	3	30	0.8	V11L10	
17.0	20.0	3.9	7.5	1.2	3	30	0.8	V11L14	
24.0	28.0	4.0	10.0	1.3	4	30	0.8	V11L20	
7.5	9.5	3.5	5.0	1.2	2	30	0.6	V14L5	
9.0	11.0	3.5	5.0	1.2	2	30	0.6	V14L7	
13.5	16.5	3.9	7.5	1.2	3	30	0.8	V14L10	
17.0	20.0	3.9	7.5	1.2	3	30	0.8	V14L14	
24.0	28.0	4.0	10.0	1.3	4	30	0.8	V14L20	
7.5	9.5	3.6	5.0	1.2	2	30	0.6	V17L5	
9.0	11.0	3.6	5.0	1.2	2	30	0.6	V17L7	
13.5	16.5	4.0	7.5	1.2	3	30	0.8	V1710	
17.0	20.0	4.0	7.5	1.2	3	30	0.8	V17L14	
24.0	28.0	4.0	10.0	1.3	4	30	0.8	V17L20	
7.5	9.5	3.6	5.0	1.2	2	30	0.6	V20K5	
9.0	11.0	3.6	5.0	1.2	2	30	0.6	V20K7	
13.5	16.5	4.0	7.5	1.2	3	30	0.8	V20K10	
17.0	20.0	4.0	7.5	1.2	3	30	0.8	V20K14	
24.0	28.0	4.0	10.0	1.3	4	30	0.8	V20K20	
7.5	9.5	3.9	5.0	1.2	2	30	0.6	V25K5	
9.0	11.0	3.9	5.0	1.2	2	30	0.6	V25K7	
13.5	16.5	4.5	7.5	1.2	3	30	0.8	V25K10	
17.0	20.0	4.6	7.5	1.2	3	30	0.8	V25K14	
24.0	28.0	4.7	10.0	1.3	4	30	0.8	V25K20	
7.5	9.5	4.0	5.0	1.2	2	30	0.6	V30K5	
9.0	11.0	4.0	5.0	1.2	2	30	0.6	V30K7	
13.5	16.5	4.6	7.5	1.2	3	30	0.8	V30K10	
17.0	20.0	4.7	7.5	1.2	3	30	0.8	V30K14	
24.0	28.0	4.8	10.0	1.3	4	30	0.8	V30K20	
7.5	9.5	4.1	5.0	1.2	2	30	0.6	V35K5	
9.0	11.0	4.1	5.0	1.2	2	30	0.6	V35K7	
13.5	16.5	4.7	7.5	1.2	3	30	0.8	V35K10	
17.0	20.0	4.8	7.5	1.2	3	30	0.8	V35K14	
24.0	28.0	4.9	10.0	1.3	4	30	0.8	V35K20	
7.5	9.5	4.2	5.0	1.2	2	30	0.6	V40K5	
9.0	11.0	4.2	5.0	1.2	2	30	0.6	V40K7	
13.5	16.5	4.8	7.5	1.2	3	30	0.8	V40K10	
17.0	20.0	4.9	7.5	1.2	3	30	0.8	V40K14	
24.0	28.0	5.0	10.0	1.3	4	30	0.8	V40K20	
7.5	9.5	4.0	5.0	1.2	2	30	0.6	V50K5	
9.0	11.0	4.0	5.0	1.2	2	30	0.6	V50K7	
13.5	16.5	4.6	7.5	1.2	3	30	0.8	V50K10	
17.0	20.0	4.7	7.5	1.2	3	30	0.8	V50K14	
24.0	28.0	4.8	10.0	1.3	4	30	0.8	V50K20	
7.5	9.5	4.0	5.0	1.7	2	30	0.6	V60K5	
9.0	11.0	4.0	5.0	1.7	2	30	0.6	V60K7	
13.5	16.5	4.6	7.5	1.9	3	30	0.8	V60K10	
17.0	20.0	4.7	7.5	2.0	3	30	0.8	V60K14	
24.0	28.0	4.8	10.0	2.1	4	30	0.8	V60K20	
7.5	9.5	4.0	5.0	1.7	2	30	0.6	V75K5	
9.0	11.0	4.0	5.0	1.7	2	30	0.6	V75K7	
13.5	16.5	4.6	7.5	1.9	3	30	0.8	V75K10	
17.0	20.0	4.7	7.5	2.0	3	30	0.8	V75K14	
24.0	28.0	4.8	10.0	2.1	4	30	0.8	V75K20	

## Table of Standard Values

Part Number	Maximum Ratings $T_A = +85^\circ\text{C}$ ( $+185^\circ\text{F}$ )					Characteristics $T_A = +25^\circ\text{C}$ ( $+77^\circ\text{F}$ )					V - I Characteristic Page	Pulse Rating Page
	Operating Voltage		Average Power Dissipation $P_{\max}$ (W)	Permissible Peak Current (8/20 $\mu\text{s}$ ) $I_{\max}$ (A)	Energy Absorption $W_{\max}$ (J)	Varistor Voltage (1 mA) $V_N$ (V)	Standard Tolerance of $V_N$ $V_N$ ( $\pm\%$ )	Maximum Clamping Voltage at Test Current (8/20 $\mu\text{s}$ )		Typical Capacitance $f=1\text{kHz}$ C (pF)		
	RMS Voltage $V_{\text{RMS}}$ (V)	DC Voltage $V_{\text{DC}}$ (V)						V <sub>C</sub> (V)	I (A)			
V95K5	95	125	0.10	400	3.5	150	10	250	5.0	140	8	12
V95K7	95	125	0.25	1200	7.7	150	10	250	10.0	300	8	13
V95K10	95	125	0.40	2500	16.0	150	10	250	25.0	650	9	13
V95K14	95	125	0.60	4500	26.0	150	10	250	50.0	1050	9	13
V95K20	95	125	1.00	6500	52.0	150	10	250	100.0	2200	10	14
V115K5	115	150	0.10	400	3.7	180	10	300	5.0	110	8	12
V115K7	115	150	0.25	1200	8.5	180	10	300	10.0	250	8	13
V115K10	115	150	0.40	2500	18.0	180	10	300	25.0	550	9	13
V115K14	115	150	0.60	4500	31.0	180	10	300	50.0	900	9	13
V115K20	115	150	1.00	6500	62.0	180	10	300	100.0	1900	10	14
V130K5	130	170	0.10	400	4.3	205	10	340	5.0	100	8	12
V130K7	130	170	0.25	1200	9.6	205	10	340	10.0	220	8	13
V130K10	130	170	0.40	2500	20.0	205	10	340	25.0	490	9	13
V130K14	130	170	0.60	4500	35.0	205	10	340	50.0	800	9	13
V130K18	130	170	1.00	6500	69.0	205	10	340	100.0	1700	10	14
V130K20	130	170	1.00	8000	75.0	205	10	340	100.0	1700	10	14
V140K5	140	180	0.10	400	4.6	220	10	360	5.0	95	8	12
V140K7	140	180	0.25	1200	10.0	220	10	360	10.0	210	8	13
V140K10	140	180	0.40	2500	23.0	220	10	360	25.0	470	9	13
V140K14	140	180	0.60	4500	37.0	220	10	360	50.0	770	9	13
V140K18	140	180	1.00	6500	73.0	220	10	360	100.0	1600	10	14
V140K20	140	180	1.00	6500	79.0	220	10	360	100.0	1600	10	14
V150K5	150	200	0.10	400	4.9	240	10	395	5.0	90	8	12
V150K7	150	200	0.25	1200	11.0	240	10	395	10.0	200	8	13
V150K10	150	200	0.40	2500	24.0	240	10	395	25.0	450	9	13
V150K14	150	200	0.60	4500	40.0	240	10	395	50.0	750	9	13
V150K18	150	200	1.00	6500	80.0	240	10	395	100.0	1500	10	14
V150K20	150	200	1.00	8000	86.0	240	10	395	100.0	1500	10	14
V175K5	175	225	0.10	400	5.7	270	10	455	5.0	75	8	12
V175K7	175	225	0.25	1200	13.0	270	10	455	10.0	170	8	13
V175K10	175	225	0.40	2500	28.0	270	10	455	25.0	350	9	13
V175K14	175	225	0.60	4500	46.0	270	10	455	50.0	700	9	13
V175K18	175	225	1.00	6500	92.0	270	10	455	100.0	1300	10	14
V175K20	175	225	1.00	8000	99.0	270	10	455	100.0	1300	10	14
V210K5	210	270	0.10	400	6.7	330	10	540	5.0	70	8	12
V210K7	210	270	0.25	1200	15.5	330	10	540	10.0	160	8	13
V210K10	210	270	0.40	2500	33.0	330	10	540	25.0	30	9	13
V210K14	210	270	0.60	4500	54.0	330	10	540	50.0	660	9	13
V210K18	210	270	1.00	6500	108.0	330	10	540	100.0	1200	10	14
V210K20	210	270	1.00	8000	115.0	330	10	540	100.0	1200	10	14
V230K5	230	300	0.10	400	7.3	360	10	595	5.0	65	8	12
V230K7	230	300	0.25	1200	17.0	360	10	595	10.0	150	8	13
V230K10	230	300	0.40	2500	36.0	360	10	595	25.0	300	9	13
V230K14	230	300	0.60	4500	61.0	360	10	595	50.0	550	9	13
V230K18	230	300	1.00	6500	122.0	360	10	595	100.0	1000	10	14
V230K20	230	300	1.00	8000	129.0	360	10	595	100.0	1000	10	14
V250K5	250	320	0.10	400	7.3	390	10	650	5.0	60	8	12
V250K7	250	320	0.25	1200	17.0	390	10	650	10.0	140	8	13
V250K10	250	320	0.40	2500	36.0	390	10	650	25.0	280	9	13
V250K14	250	320	0.60	4500	61.0	390	10	650	50.0	450	9	13
V250K18	250	320	1.00	6500	131.0	390	10	650	100.0	930	10	14
V250K20	250	320	1.00	8000	141.0	390	10	650	100.0	920	10	14
V275K5	275	350	0.10	400	8.7	430	10	710	5.0	55	8	12
V275K7	275	350	0.25	1200	21.0	430	10	710	10.0	120	8	13
V275K10	275	350	0.40	2500	43.0	430	10	710	25.0	240	9	13
V275K14	275	350	0.60	4500	72.0	430	10	710	50.0	400	9	13
V275K18	275	350	1.00	6500	141.0	430	10	710	100.0	820	10	14
V275K20	275	350	1.00	8000	152.0	430	10	710	100.0	820	10	14

Dimensions								Part Number	
D <sub>max</sub> (mm)	H <sub>max</sub> (mm)	T <sub>max</sub> (mm)	W ±1 (mm)	L ±1 (mm)	h <sub>max</sub> (mm)	l <sub>max</sub> (mm)	d ±0.05 (mm)		
7.5	9.5	4.0	5.0	2.0	2	30	0.6	V95K5	
9.0	11.0	4.0	5.0	2.1	2	30	0.6	V95K7	
13.5	16.5	4.6	7.5	2.1	3	30	0.8	V95K10	
17.0	20.0	4.7	7.5	2.2	3	30	0.8	V95K14	
24.0	28.0	4.8	10.0	2.3	4	30	0.8	V95K20	
7.5	9.5	4.0	5.0	1.3	2	30	0.6	V115K5	
9.0	11.0	4.0	5.0	1.2	2	30	0.6	V115K7	
13.5	16.5	4.6	7.5	1.2	3	30	0.8	V115K10	
17.0	20.0	4.7	7.5	1.2	3	30	0.8	V115K14	
24.0	28.0	4.8	10.0	1.2	4	30	0.8	V115K20	
7.5	9.5	4.0	5.0	1.2	2	30	0.6	V130K5	
9.0	11.0	4.0	5.0	1.2	2	30	0.6	V130K7	
13.5	16.5	4.6	7.5	1.2	3	30	0.8	V130K10	
17.0	20.0	4.7	7.5	1.3	3	30	0.8	V130K14	
22.0	26.0	4.8	10.0	1.2	4	30	0.8	V130K18	
24.0	28.0	4.8	10.0	1.2	4	30	0.8	V130K20	
7.5	9.5	4.5	5.0	2.2	2	30	0.6	V140K5	
9.0	11.0	4.5	5.0	2.2	2	30	0.6	V140K7	
13.5	16.5	5.1	7.5	2.4	3	30	0.8	V140K10	
17.0	20.0	5.2	7.5	2.5	3	30	0.8	V140K14	
22.0	26.0	5.3	10.0	2.6	4	30	0.8	V140K18	
24.0	28.0	5.3	10.0	2.6	4	30	0.8	V140K20	
7.5	9.5	4.6	5.0	2.3	2	30	0.6	V150K5	
9.0	11.0	4.6	5.0	2.3	2	30	0.6	V150K7	
13.5	16.5	5.2	7.5	2.5	3	30	0.8	V150K10	
17.0	20.0	5.3	7.5	2.6	3	30	0.8	V150K14	
22.0	26.0	5.4	10.0	2.7	4	30	0.8	V150K18	
24.0	28.0	5.4	10.0	2.7	4	30	0.8	V150K20	
7.5	9.5	4.7	5.0	2.4	2	30	0.6	V175K5	
9.0	11.0	4.7	5.0	2.4	2	30	0.6	V175K7	
13.5	16.5	5.3	7.5	2.6	3	30	0.8	V175K10	
17.0	20.0	5.4	7.5	2.7	3	30	0.8	V175K14	
22.0	26.0	5.5	10.0	2.8	4	30	0.8	V175K18	
24.0	28.0	5.5	10.0	2.8	4	30	0.8	V175K20	
7.5	9.5	4.8	5.0	2.5	2	30	0.6	V210K5	
9.0	11.0	4.8	5.0	2.5	2	30	0.6	V210K7	
13.5	16.5	5.4	7.5	2.7	3	30	0.8	V210K10	
17.0	20.0	5.5	7.5	2.8	3	30	0.8	V210K14	
22.0	26.0	5.6	10.0	2.9	4	30	0.8	V210K18	
24.0	28.0	5.6	10.0	2.9	4	30	0.8	V210K20	
7.5	9.5	4.9	5.0	2.6	2	30	0.6	V230K5	
9.0	11.0	4.9	5.0	2.6	2	30	0.6	V230K7	
13.5	16.5	5.5	7.5	2.8	3	30	0.8	V230K10	
17.0	20.0	5.6	7.5	2.9	3	30	0.8	V230K14	
22.0	26.0	5.7	10.0	3.0	4	30	0.6	V230K18	
24.0	28.0	5.7	10.0	3.0	4	30	0.6	V230K20	
7.5	9.5	5.0	5.0	2.7	2	30	0.6	V250K5	
9.0	11.0	5.0	5.0	2.7	2	30	0.6	V250K7	
13.5	16.5	5.6	7.5	2.9	3	30	0.8	V250K10	
17.0	20.0	5.7	7.5	3.0	3	30	0.8	V250K14	
22.0	26.0	5.8	10.0	3.1	4	30	0.8	V250K18	
24.0	28.0	5.8	10.0	3.1	4	30	0.8	V250K20	
7.5	9.5	5.0	5.0	2.8	2	30	0.6	V275K5	
9.0	11.0	5.0	5.0	2.8	2	30	0.6	V275K7	
13.5	16.5	5.6	7.5	3.0	3	30	0.8	V275K10	
17.0	20.0	5.7	7.5	3.1	3	30	0.8	V275K14	
22.0	26.0	5.8	10.0	3.2	4	30	0.8	V275K18	
24.0	28.0	5.8	10.0	3.2	4	30	0.8	V275K20	

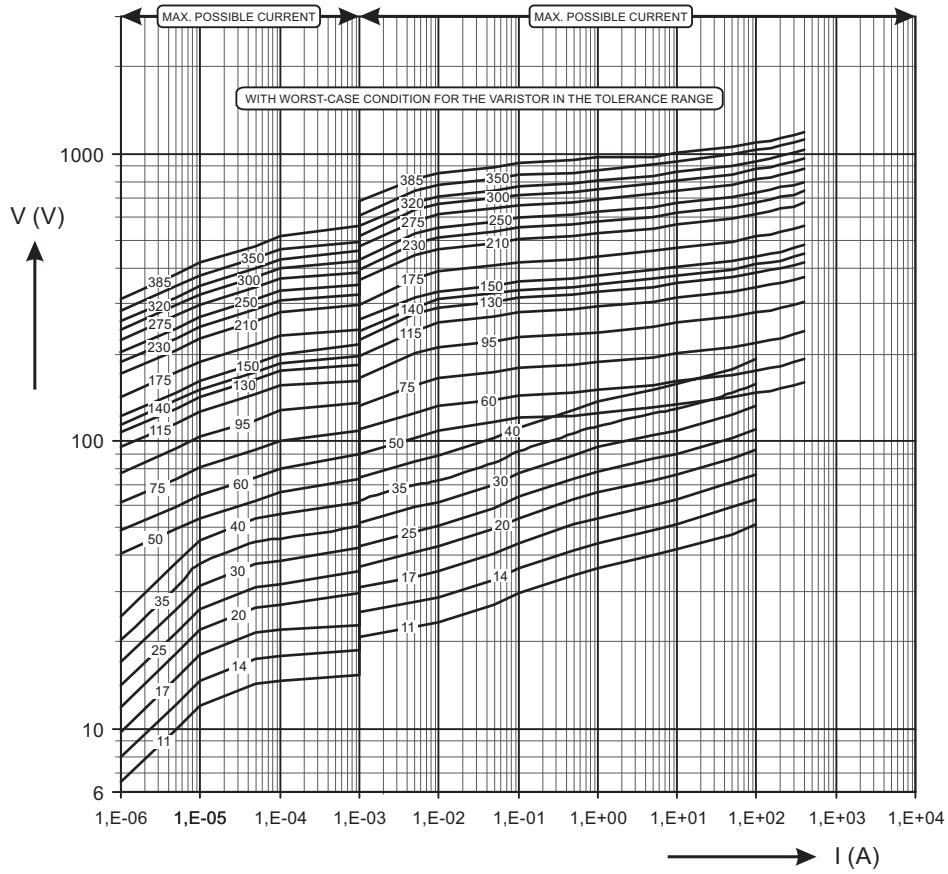
**Table of Standard Values**

Part Number	Maximum Ratings TA = +85°C (+185°F)					Characteristics TA = +25°C (+77°F)					V - I Characteristic Page	Pulse Rating Page
	Operating Voltage		Average Power Dissipation P <sub>max</sub> (W)	Permissible Peak Current (8/20 μs) I <sub>max</sub> (A)	Energy Absorption (2 ms) W <sub>max</sub> (J)	Varistor Voltage (1 mA) V <sub>N</sub> (V)	Standard Tolerance of V <sub>N</sub> (±%)	Maximum Clamping Voltage at Test Current (8/20 μs)		Typical Capacitance f=1kHz C (pF)		
	RMS Voltage V <sub>RMS</sub> (V)	DC Voltage V <sub>DC</sub> (V)						V <sub>C</sub> (V)	I (A)			
V300K5	300	385	0.10	400	9.7	470	10	775	5.0	50	8	12
V300K7	300	385	0.25	1200	24.0	470	10	775	10.0	100	8	13
V300K10	300	385	0.40	2500	48.0	470	10	775	25.0	210	9	13
V300K14	300	385	0.60	4500	76.0	470	10	775	50.0	350	9	13
V300K18	300	385	1.00	6500	161.0	470	10	775	100.0	760	10	14
V300K20	300	385	1.00	8000	174.0	470	10	775	100.0	760	10	14
V320K5	320	420	0.10	400	10.4	510	10	840	5.0	45	8	12
V320K7	320	420	0.25	1200	25.0	510	10	840	10.0	90	8	13
V320K10	320	420	0.40	2500	50.0	510	10	840	25.0	190	9	13
V320K14	320	420	0.60	4500	84.0	510	10	840	50.0	320	9	13
V320K18	320	420	1.00	6500	171.0	510	10	840	100.0	700	10	14
V320K20	320	420	1.00	8000	185.0	510	10	840	100.0	700	10	14
V350K5	350	460	0.10	400	11.0	560	10	925	10.0	40	8	12
V350K7	350	460	0.25	1200	27.0	560	10	925	5.0	80	8	13
V350K10	350	460	0.40	2500	53.0	560	10	925	10.0	170	9	13
V350K14	350	460	0.60	4500	90.0	560	10	925	25.0	290	9	13
V350K18	350	460	1.00	6500	180.0	560	10	925	50.0	610	10	14
V350K20	350	460	1.00	8000	194.0	560	10	925	50.0	610	10	14
V385K10	385	505	0.40	2500	55.0	620	10	1025	25.0	150	9	13
V385K14	385	505	0.60	4500	92.0	620	10	1025	50.0	250	9	13
V385K18	385	505	1.00	6500	184.0	620	10	1025	100.0	500	10	14
V385K20	385	505	1.00	8000	200.0	620	10	1025	100.0	500	10	14
V420K10	420	560	0.40	2500	61.0	680	10	1120	25.0	140	9	13
V420K14	420	560	0.60	4500	102.0	680	10	1120	50.0	230	9	13
V420K18	420	560	1.00	6500	203.0	680	10	1120	100.0	450	10	14
V420K20	420	560	1.00	8000	220.0	680	10	1120	100.0	450	10	14
V440K10	440	585	0.40	2500	64.0	715	10	1180	25.0	135	9	13
V440K14	440	585	0.60	4500	116.0	715	10	1180	50.0	225	9	13
V440K18	440	585	1.00	6500	222.0	715	10	1180	100.0	435	10	14
V440K20	440	585	1.00	8000	240.0	715	10	1180	100.0	435	10	14
V460K10	460	615	0.40	2500	67.0	750	10	1240	25.0	130	9	13
V460K14	460	615	0.60	4500	134.0	750	10	1240	50.0	220	9	13
V460K18	460	615	1.00	6500	241.0	750	10	1240	100.0	420	10	14
V460K20	460	615	1.00	8000	261.0	750	10	1240	100.0	420	10	14
V510K10	510	670	0.40	2500	73.0	820	10	1355	25.0	120	9	13
V510K14	510	670	0.60	4500	146.0	820	10	1355	50.0	200	9	13
V510K18	510	670	1.00	6500	252.0	820	10	1355	100.0	400	10	14
V510K20	510	670	1.00	8000	273.0	820	10	1355	100.0	400	10	14
V550K10	550	745	0.40	2500	80.0	910	10	1500	25.0	110	9	13
V550K14	550	745	0.60	4500	160.0	910	10	1500	50.0	180	9	13
V550K18	550	745	1.00	6500	280.0	910	10	1500	100.0	350	10	14
V550K20	550	745	1.00	8000	302.0	910	10	1500	100.0	350	10	14
V625K10	625	825	0.40	2500	90.0	1000	10	1650	25.0	95	9	13
V625K14	625	825	0.60	4500	172.0	1000	10	1650	50.0	160	9	13
V625K18	625	825	1.00	6500	304.0	1000	10	1650	100.0	320	10	14
V625K20	625	825	1.00	8000	328.0	1000	10	1650	100.0	320	10	14
V680K10	680	895	0.40	2500	95.0	1100	10	1815	25.0	90	9	13
V680K14	680	895	0.60	4500	185.0	1100	10	1815	50.0	150	9	13
V680K18	680	895	1.00	6500	330.0	1100	10	1815	100.0	300	10	14
V680K20	680	895	1.00	8000	358.0	1100	10	1815	100.0	300	10	14
V750K10	750	1060	0.40	2500	100.0	1200	10	1980	25.0	80	9	13
V750K14	750	1060	0.60	4500	190.0	1200	10	1980	50.0	140	9	13
V750K18	750	1060	1.00	6500	340.0	1200	10	1980	100.0	280	10	14
V750K20	750	1060	1.00	8000	365.0	1200	10	1980	100.0	280	10	14
V1000K20	1000	1200	1.00	6500	370.0	1600	10	2640	100.0	200	10	14
V1100K20	1100	1465	1.00	6500	420.0	1800	10	2970	100.0	180	10	14

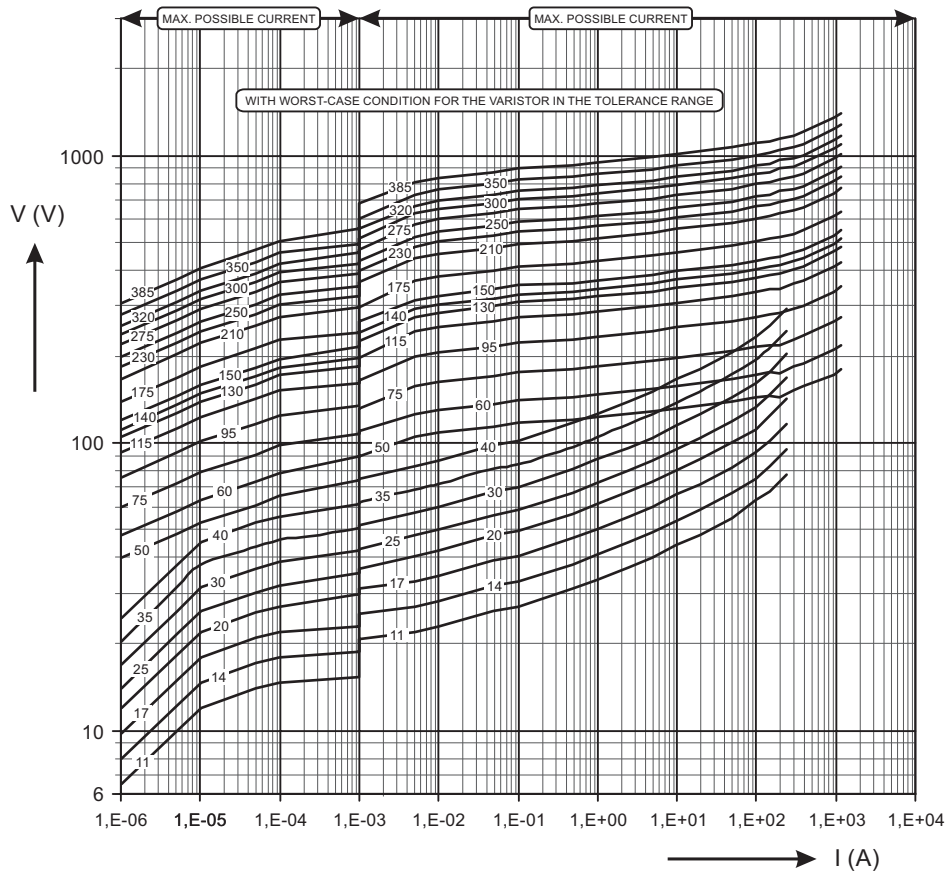
Dimensions								Part Number	
$D_{max}$ (mm)	$H_{max}$ (mm)	$T_{max}$ (mm)	$W \pm 1$ (mm)	$L \pm 1$ (mm)	$h_{max}$ (mm)	$l_{max}$ (mm)	$d \pm 0.05$ (mm)		
7.5	9.5	5.2	5.0	2.9	2	30	0.6	V300K5	
9.0	11.0	5.2	5.0	2.9	2	30	0.6	V300K7	
13.5	16.5	5.8	7.5	3.1	3	30	0.8	V300K10	
17.0	20.0	5.9	7.5	3.2	3	30	0.8	V300K14	
22.0	26.0	6.0	10.0	3.3	4	30	0.8	V300K20	
24.0	28.0	6.0	10.0	3.3	4	30	0.8	V300K20	
7.5	9.5	5.3	5.0	3.0	2	30	0.6	V320K5	
9.0	11.0	5.3	5.0	3.0	2	30	0.6	V320K7	
13.5	16.5	5.9	7.5	3.2	3	30	0.8	V320K10	
17.0	20.0	6.0	7.5	3.3	3	30	0.8	V320K14	
22.0	26.0	6.1	10.0	3.4	4	30	0.8	V320K18	
24.0	28.0	6.1	10.0	3.4	4	30	0.8	V320K20	
7.5	9.5	5.5	5.0	3.2	2	30	0.6	V350K5	
9.0	11.0	5.5	5.0	3.2	2	30	0.6	V350K7	
13.5	16.5	6.1	7.5	3.4	3	30	0.8	V350K10	
17.0	20.0	6.2	7.5	3.5	3	30	0.8	V350K14	
22.0	26.0	6.3	10.0	3.6	4	30	0.8	V350K18	
24.0	28.0	6.3	10.0	3.6	4	30	0.8	V350K20	
13.5	16.5	6.4	7.5	3.7	2	30	0.8	V385K10	
17.0	20.0	6.4	7.5	3.7	3	30	0.8	V385K14	
22.0	26.0	6.5	10.0	3.8	4	30	0.8	V385K18	
24.0	28.0	6.5	10.0	3.8	4	30	0.8	V385K20	
13.5	16.5	6.6	7.5	3.9	2	30	0.8	V420K10	
17.0	20.0	6.6	7.5	3.9	3	30	0.8	V420K14	
22.0	26.0	6.7	10.0	4.0	4	30	0.8	V420K18	
24.0	28.0	6.7	10.0	4.0	4	30	0.8	V420K20	
13.5	16.5	6.7	7.5	3.9	2	30	0.8	V440K10	
17.0	20.0	6.7	7.5	3.9	3	30	0.8	V440K14	
22.0	26.0	6.8	10.0	4.1	4	30	0.8	V440K18	
24.0	28.0	6.8	10.0	4.1	4	30	0.8	V440K20	
13.5	16.5	6.8	7.5	4.1	2	30	0.8	V460K10	
17.0	20.0	6.8	7.5	4.1	3	30	0.8	V460K14	
22.0	26.0	6.9	10.0	4.2	4	30	0.8	V460K18	
24.0	28.0	6.9	10.0	4.2	4	30	0.8	V460K20	
13.5	16.5	6.9	7.5	4.2	2	30	0.8	V510K10	
17.0	20.0	6.9	7.5	4.2	3	30	0.8	V510K14	
22.0	26.0	7.0	10.0	4.3	4	30	0.8	V510K18	
24.0	28.0	7.0	10.0	4.3	4	30	0.8	V510K20	
13.5	16.5	7.7	7.5	5.0	2	30	0.8	V550K10	
17.0	20.0	7.7	7.5	5.0	3	30	0.8	V550K14	
22.0	26.0	7.8	10.0	5.1	4	30	0.8	V550K18	
24.0	28.0	7.8	10.0	5.1	4	30	0.8	V550K20	
13.5	16.5	8.2	7.5	5.5	2	30	0.8	V625K10	
17.0	20.0	8.2	7.5	5.5	3	30	0.8	V625K14	
22.0	26.0	8.3	10.0	5.6	4	30	0.8	V625K18	
24.0	28.0	8.3	10.0	5.6	4	30	0.8	V625K20	
13.5	16.5	8.6	7.5	5.9	2	30	0.8	V680K10	
17.0	20.0	8.6	7.5	5.9	3	30	0.8	V680K14	
22.0	26.0	8.7	10.0	6.0	4	30	0.8	V680K18	
24.0	28.0	8.7	10.0	6.0	4	30	0.8	V680K20	
13.5	16.5	8.9	7.5	6.2	2	30	0.8	V750K10	
17.0	20.0	8.9	7.5	6.2	3	30	0.8	V750K14	
22.0	26.0	9.0	10.0	6.3	4	30	0.8	V750K18	
24.0	28.0	9.0	10.0	6.3	4	30	0.8	V750K20	
24.0	28.0	13.5	10.0	10.8	4	30	0.8	V1000K20	
24.0	28.0	14.5	10.0	11.8	4	30	0.8	V1100K20	

V-I Characteristics

V11L5-V350K5



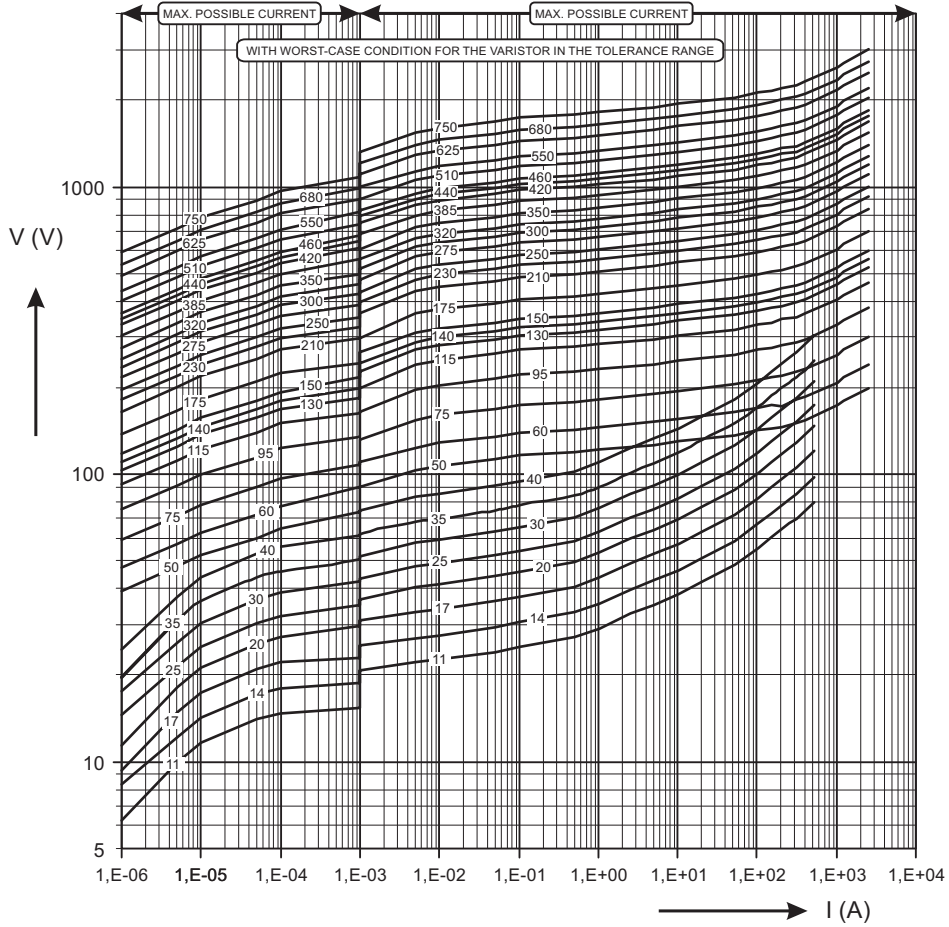
V11L7-V350K7



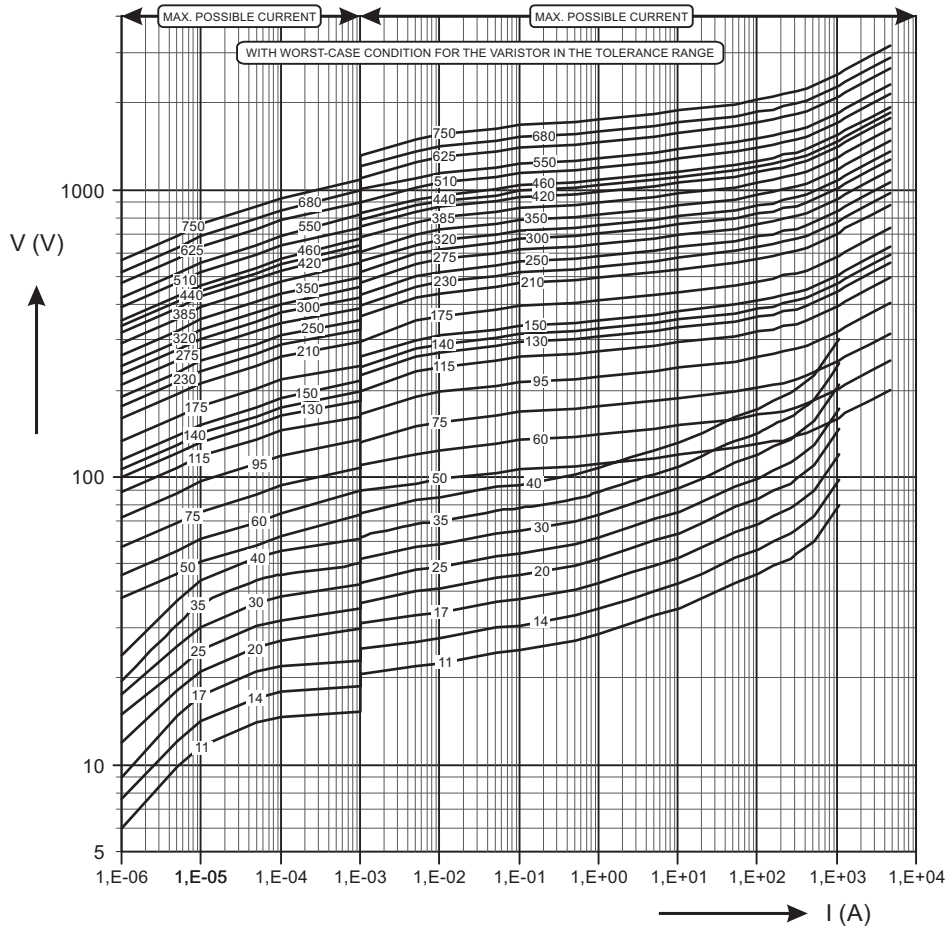


V-I Characteristics

V11L10-V750K10

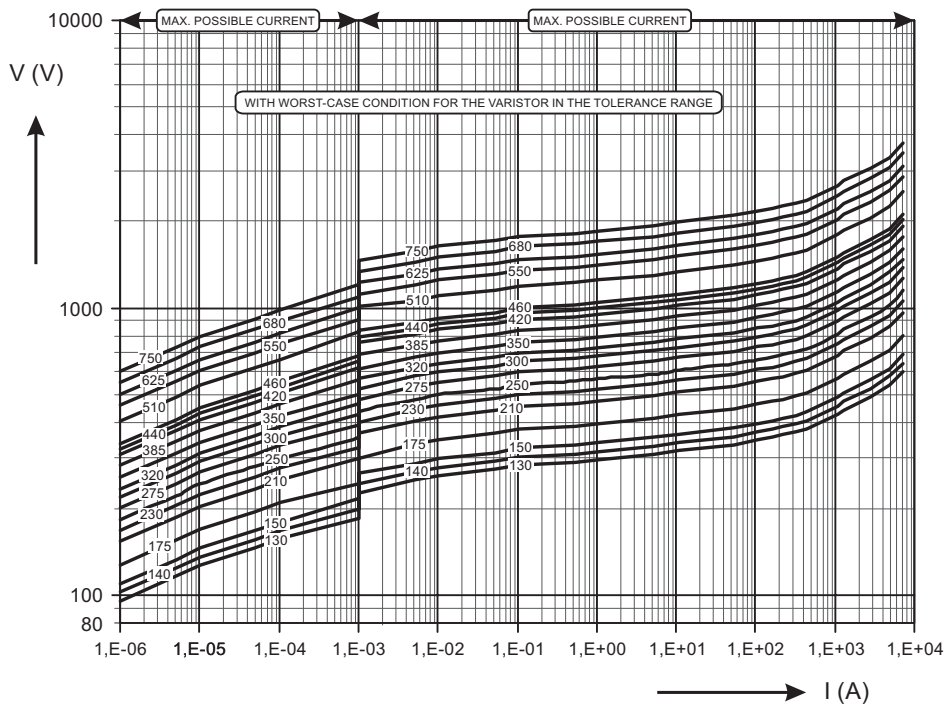


V11L14-V750K14

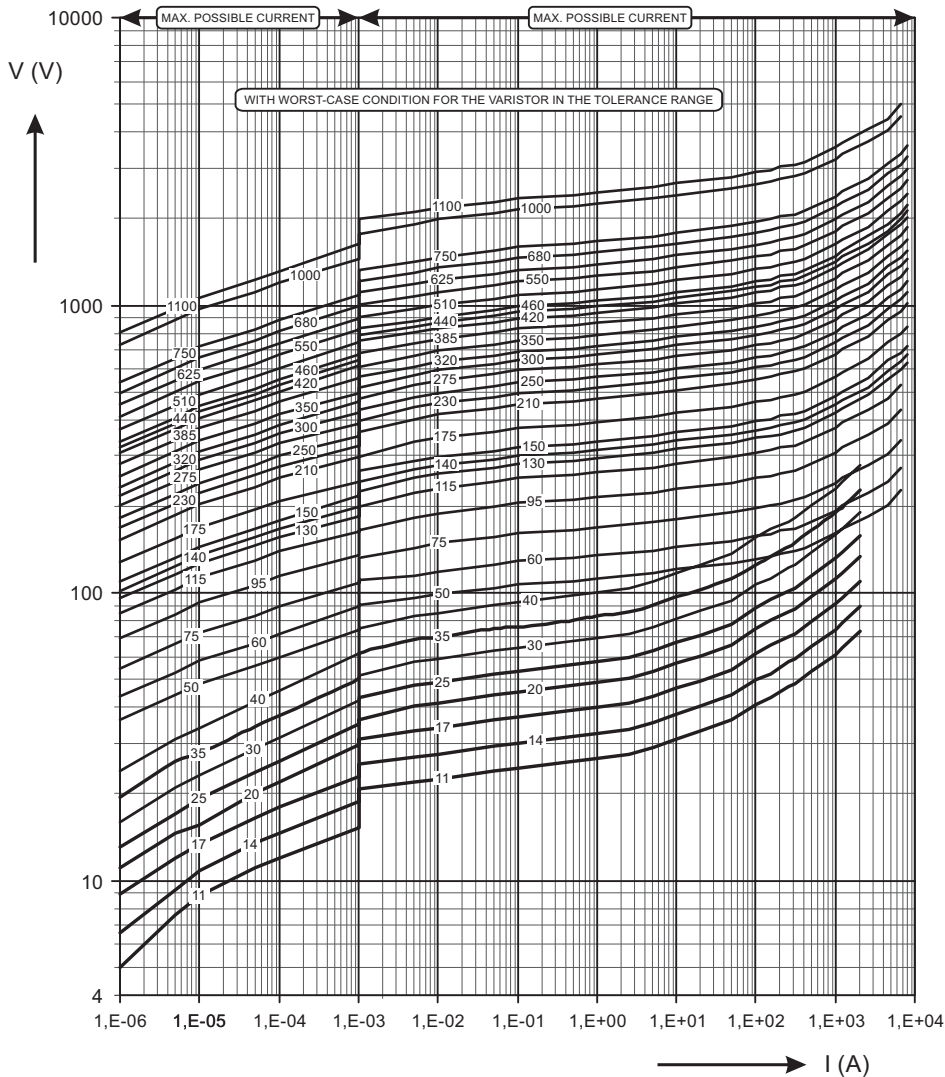


V-I Characteristics

V130K18-V750K18

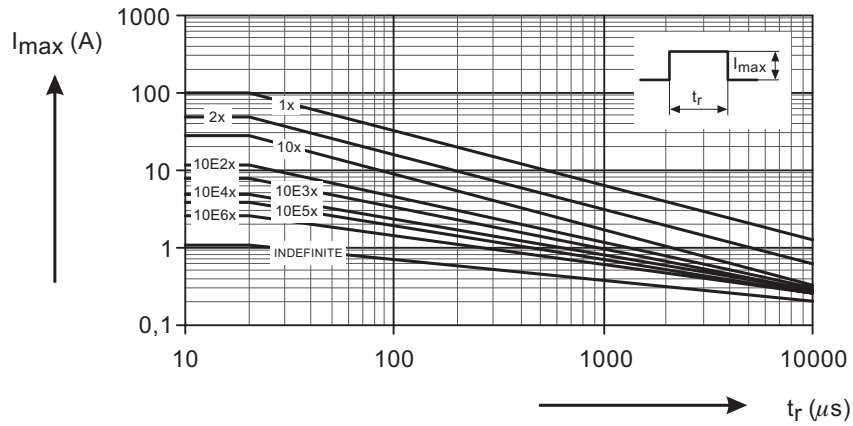


V111L20-V110K20

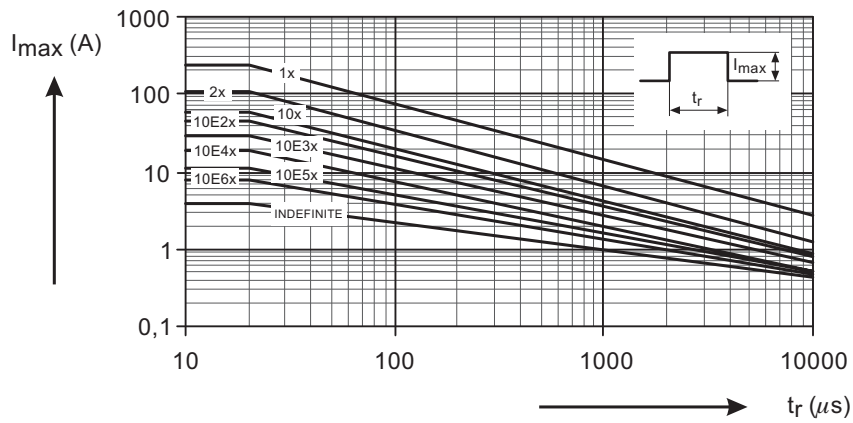


**Pulse Ratings**

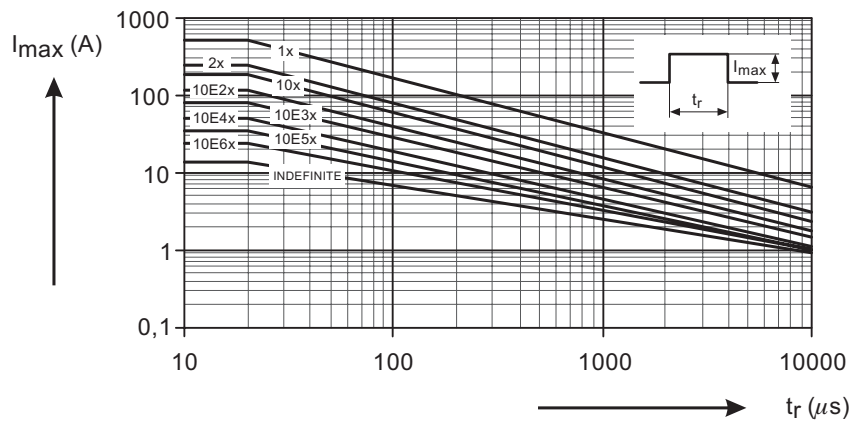
V11L5-V40K5



V11L7-V40K7

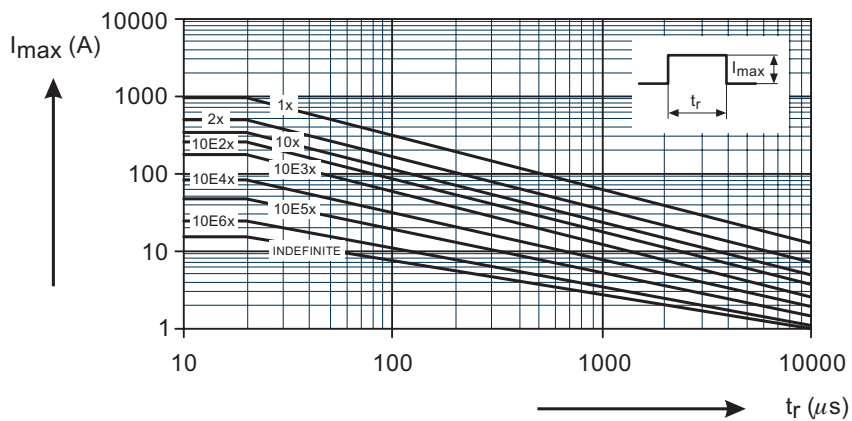


V11L10-V40K10

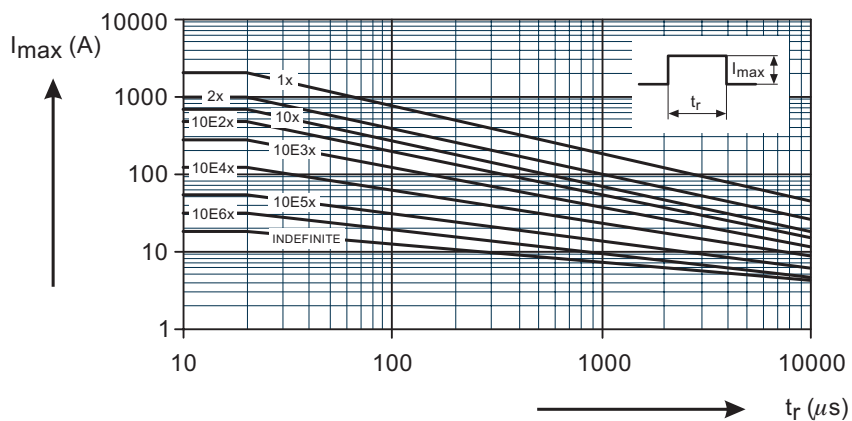


**Pulse Ratings**

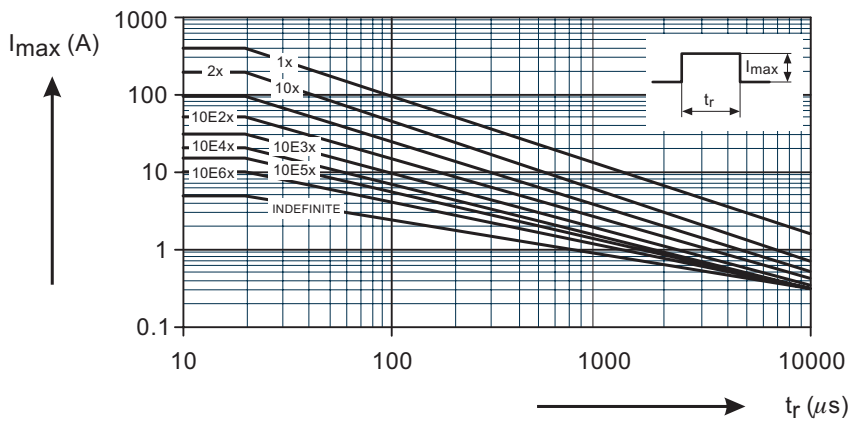
V11L14-V40K14



V11L20-V40K20

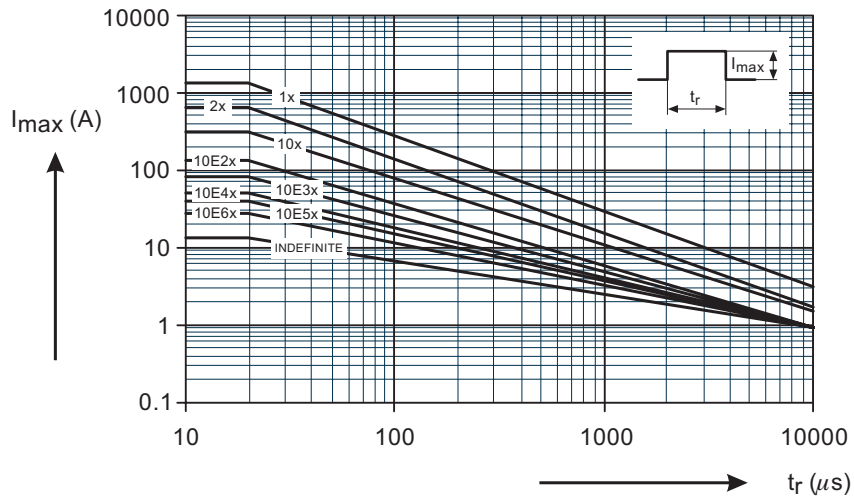


V50K5-V350K5

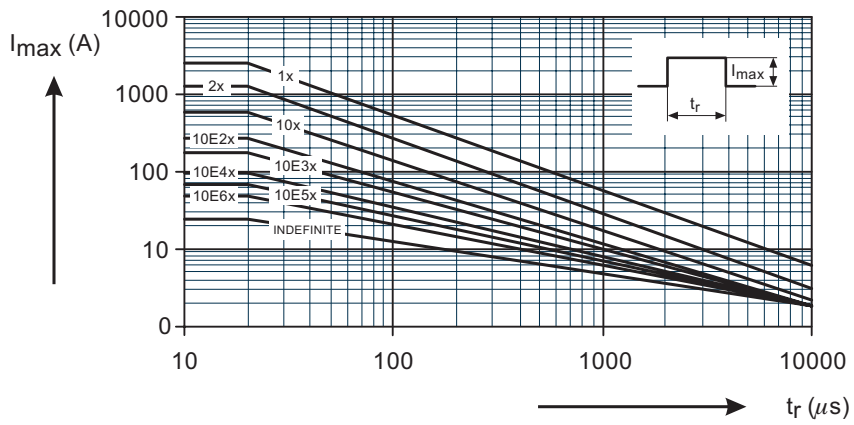


**Pulse Ratings**

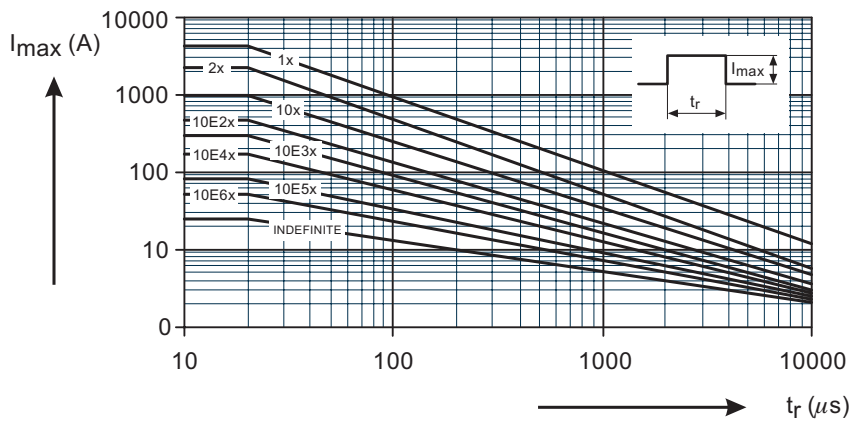
V50K7-V350K7



V50K10L20-V750K10

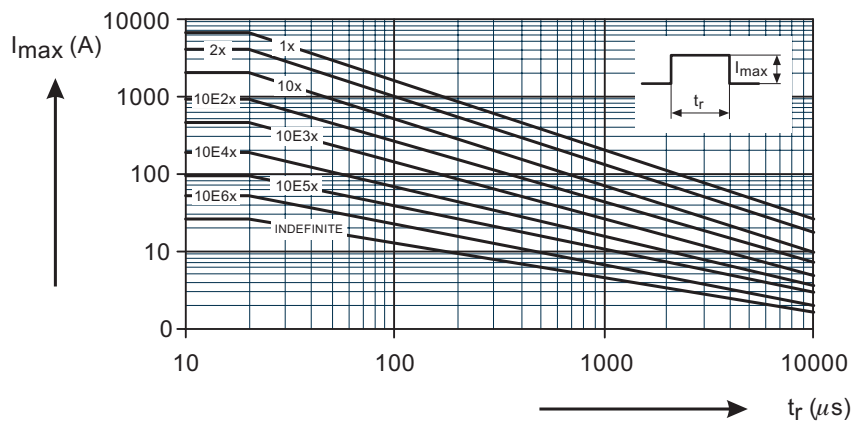


V50K14-V750K14



**Pulse Ratings**

V50K18-V750K18



V50K20-V1100K20

