



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Last order date: 31.10.2012



Disc Size: 10 mm



Disc Size: 20 mm



Disc Size: 25 mm

390 - 1000VAC · 3500 - 13000 A · 10 - 25 mm



**Description**

- Radial Leaded Varistor
- Low leakage current
- VDE, UL, CSA approvals

**Standards**

- IEC 61051 - Varistors for Use in Electronic Equipment
- UL 1414 - Across-the-Line Components
- UL 1449 - Transient Voltage Surge Suppressors
- CSA C22.2 - Accessories and Parts for Electronic Equipment

**Approvals**

- VDE Certificate Number: 40026011
- UL File Number: E340137 (UL 1449), E325083 (UL 1414)
- CSA File Number: 2088244

**Applications**

- Overvoltage Protection for three-phase applications
- Surge Protection according to IEC 61000-4-5

**Weblinks**

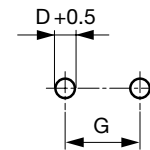
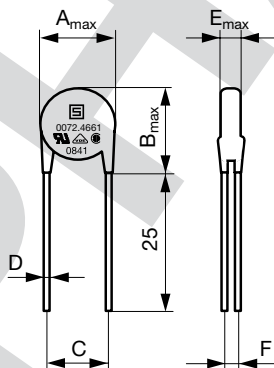
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

**Technical Data**

Rated Voltage	390 - 1000VAC, 500 - 1200VDC
Disc Size	10 - 25 mm
Peak Current 8/20 $\mu$ s, 1 Pulse	3500 - 13000 A
Max. Energy Absorption 10/1000 $\mu$ s	25 - 875 J
Current/Energy Derating above 85 °C	- 2.5% / °C
Voltage/Temperature Coefficient	- 0.05% / °C
Mounting	PCB, THT
Admissible Ambient Air Temp.	- 40 °C to 85 °C
Material: Terminals	Tin-Plated Copper Alloy
Material: Tube	Zinc Oxide
Storage Conditions	0 °C to 60 °C max. 70% r.h.
Product Marking	Order Number, Approvals, Data Code

Soldering Methods	Wave
Solderability	235 °C / 2 sec IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Insulation Resistance	>10'000 M $\Omega$
HiPot Encapsulation	2500 VDC
Impulse Response Time	< 50 ns
DC Leakage Current	< 200 $\mu$ A
Flammability	UL 94V-0

**Dimensions**



Drilling diagram

**Dimensions**

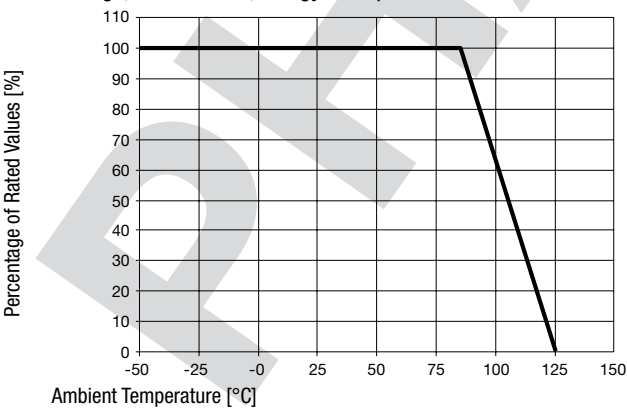
Rated Voltage [VAC]	Disc size [mm]	A max [mm]	B max [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Order Number
390	10	12	15	7.5	0.8	5.8	2.7	8.0	0072.3941.xx
390	14	15.5	19	7.5	0.8	5.9	2.7	8.0	0072.3961.xx
390	20	21.5	26	10	1	6.3	2.8	10.4	0072.3981.xx
390	25	27.9	31.8	10	1	6.3	2.8	10.4	0072.3991.xx
420	10	12	15	7.5	0.8	6.1	2.9	8.0	0072.4241.xx
420	14	15.5	19	7.5	0.8	6.1	2.9	8.0	0072.4261.xx
420	20	21.5	26	10	1	6.5	3.1	10.5	0072.4281.xx
420	25	27.9	31.8	10	1	6.5	3.1	10.5	0072.4291.xx
460	10	12	15	7.5	0.8	6.3	3.1	8.1	0072.4641.xx
460	14	15.5	19	7.5	0.8	6.4	3.1	8.1	0072.4661.xx
460	20	21.5	26	10	1	6.8	3.3	10.5	0072.4681.xx
460	25	27.9	31.8	10	1	6.8	3.3	10.5	0072.4691.xx
480	10	12	15	7.5	0.8	6.3	3.1	8.1	0072.4841.xx
480	14	15.5	19	7.5	0.8	6.4	3.1	8.1	0072.4861.xx
480	20	21.5	26	10	1	6.8	3.3	10.5	0072.4881.xx
480	25	27.9	31.8	10	1	6.8	3.3	10.5	0072.4891.xx
510	10	12	15	7.5	0.8	6.7	3.4	8.2	0072.5141.xx
510	14	15.5	19	7.5	0.8	6.8	3.4	8.2	0072.5161.xx
510	20	21.5	26	10	1	7.1	3.5	10.6	0072.5181.xx
510	25	27.9	31.8	10	1	7.1	3.5	10.6	0072.5191.xx
550	10	12	15	7.5	0.8	7.1	3.7	8.4	0072.5541.xx
550	14	15.5	19	7.5	0.8	7.2	3.7	8.4	0072.5561.xx
550	20	21.5	26	10	1	7.5	3.9	10.7	0072.5581.xx
550	25	27.9	31.8	10	1	7.5	3.9	10.7	0072.5591.xx
620	10	12	15	7.5	0.8	7.5	4	8.5	0072.6241.xx
620	14	15.5	19	7.5	0.8	7.5	4	8.5	0072.6261.xx
620	20	21.5	26	10	1	7.9	4.2	10.8	0072.6281.xx
620	25	27.9	31.8	10	1	7.9	4.2	10.8	0072.6291.xx
680	10	12	15	7.5	0.8	7.9	4.4	8.7	0072.6841.xx
680	14	15.5	19	7.5	0.8	8	4.4	8.7	0072.6861.xx
680	20	21.5	26	10	1	8.4	4.5	11.0	0072.6881.xx
680	25	27.9	31.8	10	1	8.4	4.5	11.0	0072.6891.xx
1000	14	15.5	19	7.5	0.8	11	6.7	10.1	0072.1061.xx
1000	20	21.5	26	10	1	11.4	6.9	12.1	0072.1081.xx
1000	25	27.9	31.8	10	1	11.4	6.9	12.1	0072.1091.xx

Electrical parameters can be found in the table of variants below.

Most Popular. Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>




**Temperature Derating Curves**

Rated Voltage, Peak Current, Energy Absorption





Variants

Rated Voltage	Rated Voltage	Disc size	Peak Current, 8/20 µs, 1 Pulse	Peak Current, 8/20 µs, 2 Pulses	Energy, 10/1000 µs	Min. Voltage @ 1 mA DC	Max. Voltage @ 1 mA DC	Max. Clamping Voltage	Peak Current, 8/20 µs, Clamping	Typ. Capacity @ 1 kHz				Order Number
[VAC]	[VDC]	[mm]	[A]	[A]	[J]	[V]	[V]	[V]	[A]	[pF]	1) 2)			
390	500	10	3500	2500	107	552	674	1025	25	146	●	●	●	0072.3941.xx
390	500	14	6000	4500	215	552	674	1025	50	297	●	●	●	0072.3961.xx
390	500	20	10000	6500	420	552	674	1025	100	667	●	●	●	0072.3981.xx
390	500	25	13000	9000	460	552	674	1025	100	1211	●	●	●	0072.3991.xx
420	560	10	3500	2500	110	594	725	1120	25	136	●	●	●	0072.4241.xx
420	560	14	6000	4500	225	594	725	1120	50	275	●	●	●	0072.4261.xx
420	560	20	10000	6500	430	594	725	1120	100	618	●	●	●	0072.4281.xx
420	560	25	13000	9000	480	594	725	1120	100	1123	●	●	●	0072.4291.xx
460	615	10	3500	2500	115	651	795	1240	25	124	●	●	●	0072.4641.xx
460	615	14	6000	4500	230	651	795	1240	50	251	●	●	●	0072.4661.xx
460	615	20	10000	6500	450	651	795	1240	100	565	●	●	●	0072.4681.xx
460	615	25	13000	9000	500	651	795	1240	100	1025	●	●	●	0072.4691.xx
480	640	10	3500	2500	120	679	829	1300	25	119	●	●	●	0072.4841.xx
480	640	14	6000	4500	235	679	829	1300	50	242	●	●	●	0072.4861.xx
480	640	20	10000	6500	460	679	829	1300	100	544	●	●	●	0072.4881.xx
480	640	25	13000	9000	510	679	829	1300	100	989	●	●	●	0072.4891.xx
510	675	10	3500	2500	125	722	881	1350	25	112	●	●	●	0072.5141.xx
510	675	14	6000	4500	240	722	881	1350	50	227	●	●	●	0072.5161.xx
510	675	20	10000	6500	470	722	881	1350	100	510	●	●	●	0072.5181.xx
510	675	25	13000	9000	525	722	881	1350	100	927	●	●	●	0072.5191.xx
550	700	10	3500	2500	130	778	950	1400	25	104	●	●	●	0072.5541.xx
550	700	14	6000	4500	255	778	950	1400	50	211	●	●	●	0072.5561.xx
550	700	20	10000	6500	510	778	950	1400	100	475	●	●	●	0072.5581.xx
550	700	25	13000	9000	540	778	950	1400	100	862	●	●	●	0072.5591.xx
620	800	10	3500	2500	145	877	1071	1650	25	92	●	●	●	0072.6241.xx
620	800	14	6000	4500	290	877	1071	1650	50	186	●	●	●	0072.6261.xx
620	800	20	10000	6500	565	877	1071	1650	100	419	●	●	●	0072.6281.xx
620	800	25	13000	9000	600	877	1071	1650	100	761	●	●	●	0072.6291.xx
680	860	10	3500	2500	155	962	1175	1800	25	84	●	●	●	0072.6841.xx
680	860	14	6000	4500	310	962	1175	1800	50	170	●	●	●	0072.6861.xx
680	860	20	10000	6500	620	962	1175	1800	100	382	●	●	●	0072.6881.xx
680	860	25	13000	9000	655	962	1175	1800	100	694	●	●	●	0072.6891.xx
1000	1200	14	6000	4500	510	1414	1728	2700	50	115	●	●	●	0072.1061.xx
1000	1200	20	10000	6500	860	1414	1728	2700	100	259	●	●	●	0072.1081.xx
1000	1200	25	13000	9000	875	1414	1728	2700	100	471	●	●	●	0072.1091.xx

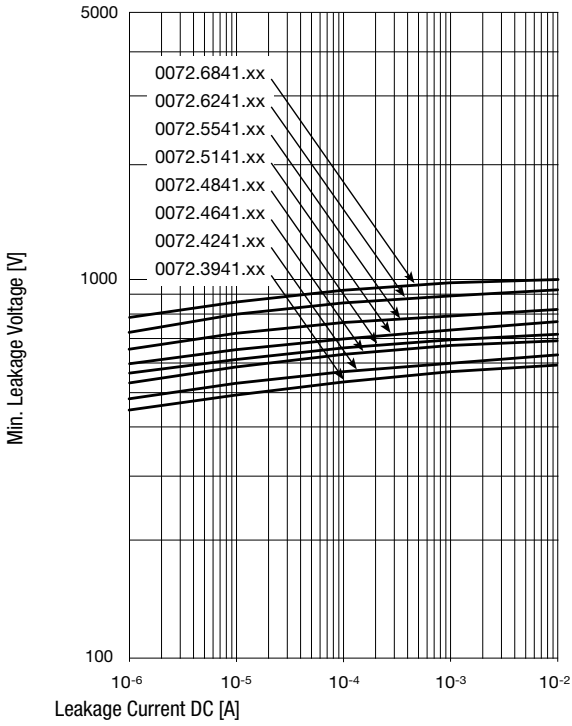
1) UL 1449 - Transient Voltage Surge Suppressors - Component  
 2) UL 1414 - Across-the-line Capacitors, Antenna-coupling and Line-bypass Components

Most Popular. Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

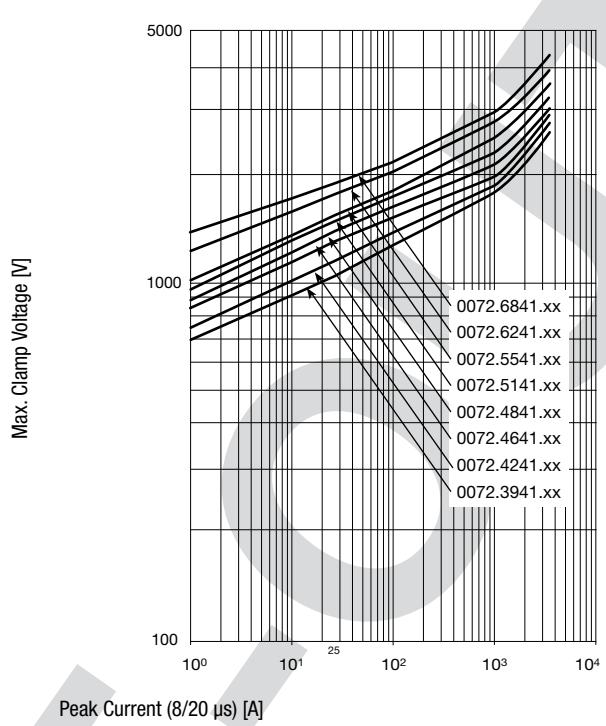
**Packaging Unit** .xx = .B1 Plastic Bag (100 pcs.)  
 Tape&Reel and Ammo Pack not available

Voltage-Current Curves

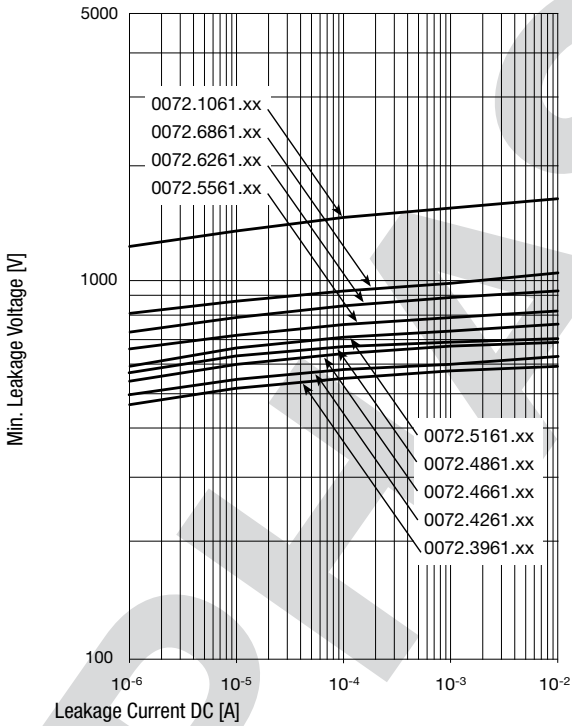
Disc Size: 10 mm



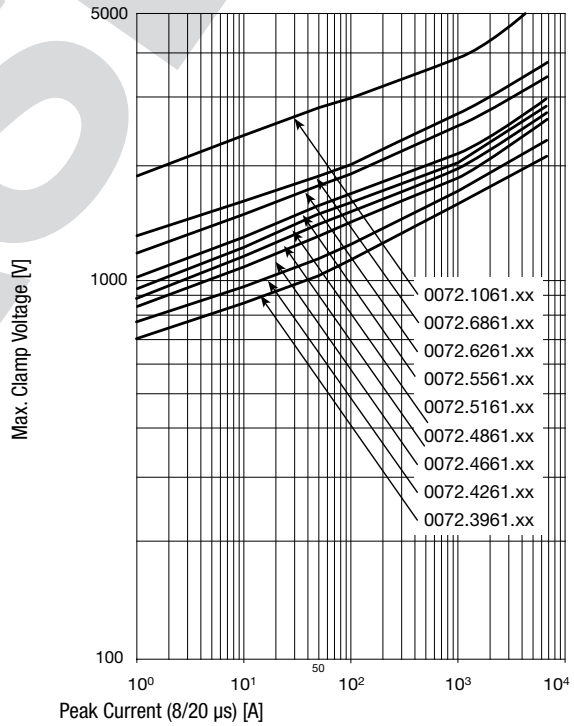
Disc Size: 10 mm



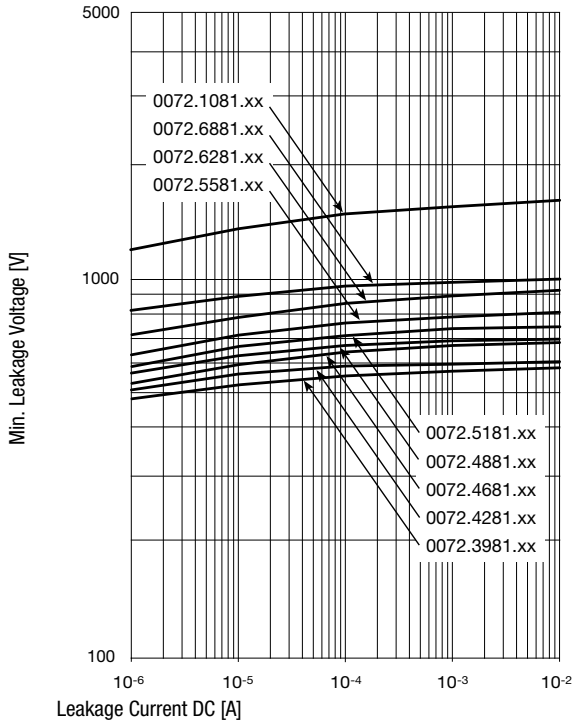
Disc Size: 14 mm



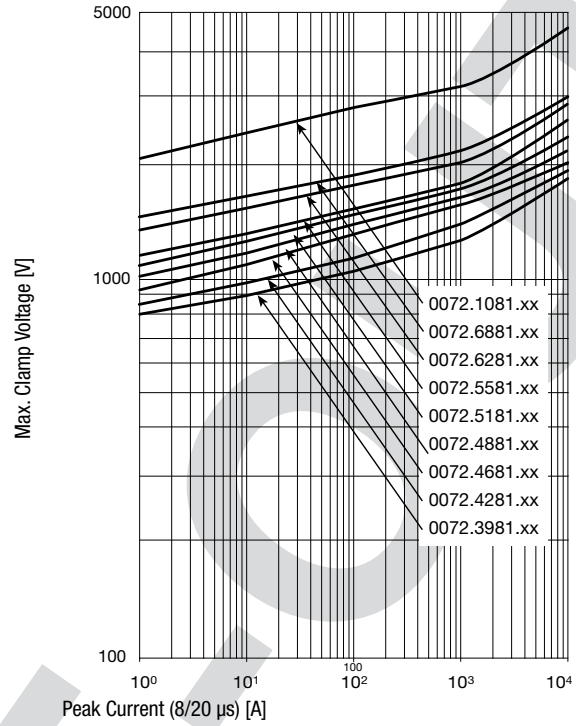
Disc Size: 14 mm



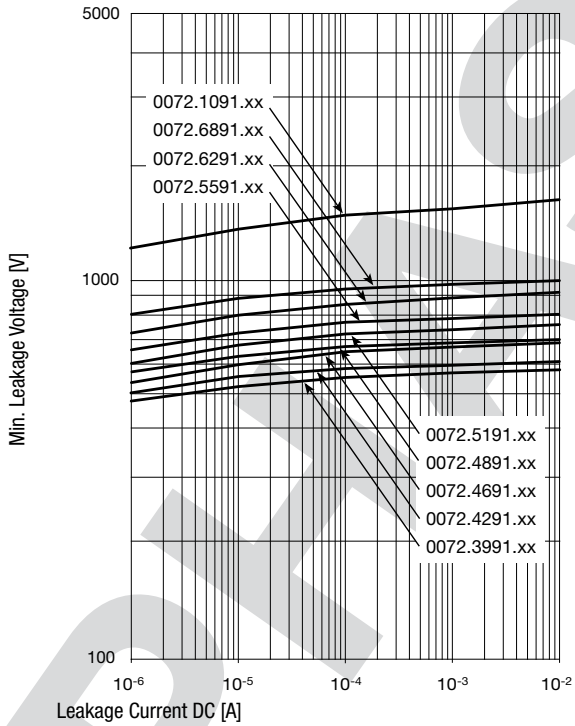
Disc Size: 20 mm



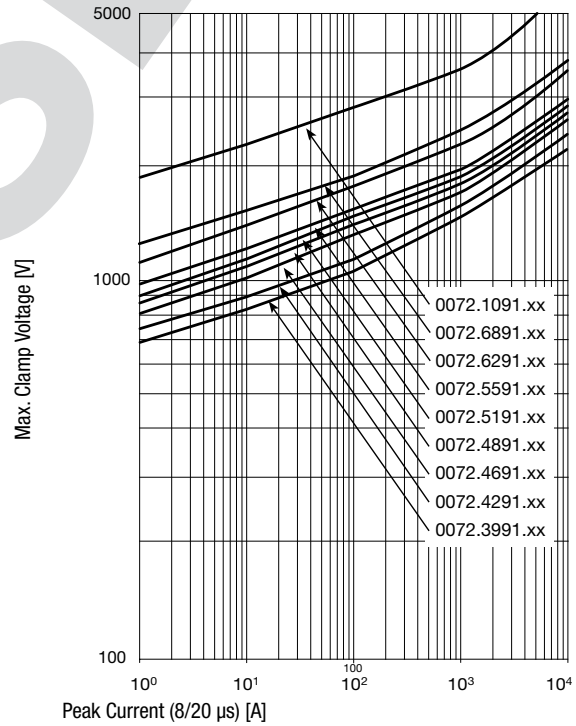
Disc Size: 20 mm Varistor



Disc Size: 25 mm

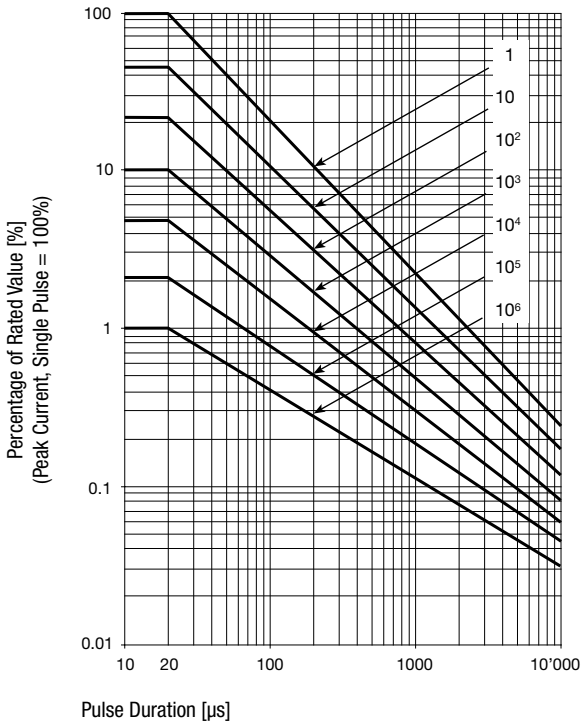


Disc Size: 25 mm



**Pulse Derating Curves**

Derating at Quantity of Pulses and Pulse Duration  
 1, 10, ... = Quantity of Pulses



PHASE-OUT