

# ZINC OXIDE VARISTOR 20 $\phi$



## Specifications

Part No.	Maximum Allowable Voltage		Maximum Energy		Withstanding Surge Current		Rated Wattage (W)	Varistor Voltage V1mA (V)	Maximum Clamping Voltage V10A (V)	Typical Capacitance (Reference) @1KHz (PF)	
	ACrms (V)	DC (V)	(10/1000 $\mu$ s) (J)	(2ms) (J)	1 time (A)	2 times (A)					
182KD20	1000	1465	560.0	100.0	6500	4000	1.0	1800(1620-1980)	2970	220	
152KD20	750	1300	420.0	300.0				1500(1350-1650)	2475	260	
112KD20	680	895	280.0	200.0				1100(990-1210)	1815	360	*
102KD20	625	825	280.0	200.0				1000(900-1100)	1650	400	* * *
911KD20	550	745	280.0	200.0				910(819-1001)	1500	440	* * *
821KD20	510	670	266.0	190.0				820(738-902)	1355	500	* * *
781KD20	485	640	266.0	190.0				780(702-858)	1290	510	* * *
751KD20	460	615	266.0	190.0				750(675-825)	1240	530	* * *
681KD20	420	560	224.0	160.0				680(612-748)	1150	300	* * *
621KD20	385	505	224.0	160.0				620(558-682)	1025	650	* * *
561KD20	350	460	210.0	150.0				560(504-616)	920	710	* * *
511KD20	320	415	210.0	150.0				510(459-561)	845	780	* * *
471KD20	300	385	210.0	150.0				470(423-517)	775	850	* * *
431KD20	275	350	196.0	140.0				430(387-473)	710	930	* * *
391KD20	250	320	182.0	130.0				390(351-429)	650	1000	* * *
361KD20	230	300	168.0	120.0				360(324-396)	535	1100	* * *
331KD20	210	275	140.0	100.0				330(297-363)	550	1200	* * *
301KD20	190	250	133.0	95.0				300(270-330)	500	1300	* * *
271KD20	175	225	126.0	90.0				270(243-297)	455	1500	* * *
241KD20	150	200	112.0	80.0				240(216-264)	395	1650	* * *
221KD20	140	180	105.0	75.0	220(198-242)	360	1800	* * *			
201KD20	130	170	98.0	70.0	200(185-225)	340	2000	* * *			
181KD20	115	150	84.0	60.0	180(162-198)	300	2200	* * *			
151KD20	95	125	70.0	50.0	150(135-165)	250	2700	* * *			
121KD20	75	100	56.0	40.0	120(108-132)	200	3300	* * *			
101KD20	60	85	42.0	30.0	100(90-110)	165	4000	* * *			
820KD20	50	65	37.8	27.0	82(74-90)	135	4900	* * *			
680KD20	40	56	23.8	17.0	68(61-75)	*135	5800	*			
560KD20	35	45	19.6	14.0	56(50-62)	*110	6500	*			
470KD20	30	38	16.8	12.0	47(42-52)	*93	7400	*			
390KD20	25	31	13.2	9.4	39(35-43)	*77	8500	*			

\*680K--390K Max. Clamping Voltage testing current 25A.

## Dimensions in mm

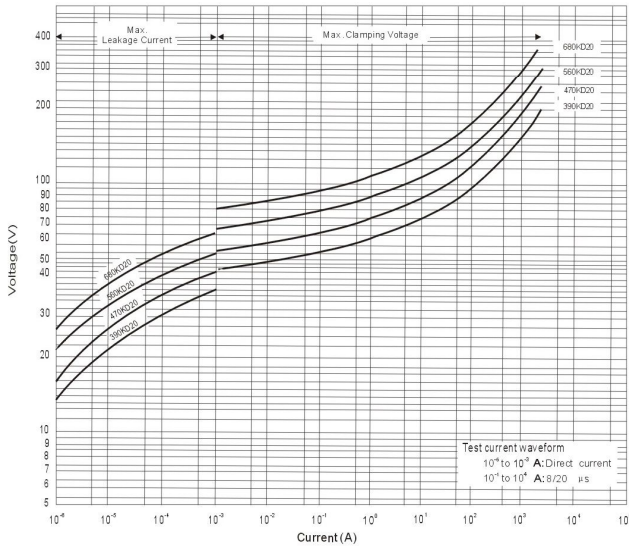
Dimensions(mm)	Model No.	T MAX.	D MAX.	H MAX.	d	E $\pm 0.8$	L MIN.
	390KD20	5.5	25	28	0.8	7.5	20
	680KD20	5.8			1.0	10	
	820KD20	4.9	25	28	0.8	7.5	20
	471KD20	7.0			1.0	10	
	511KD20	7.0	25	30	0.8	8	20
	152KD20	10.1			1.0		
182KD20	14.8	25	30	1.0	15( $\pm 1.0$ )	20	



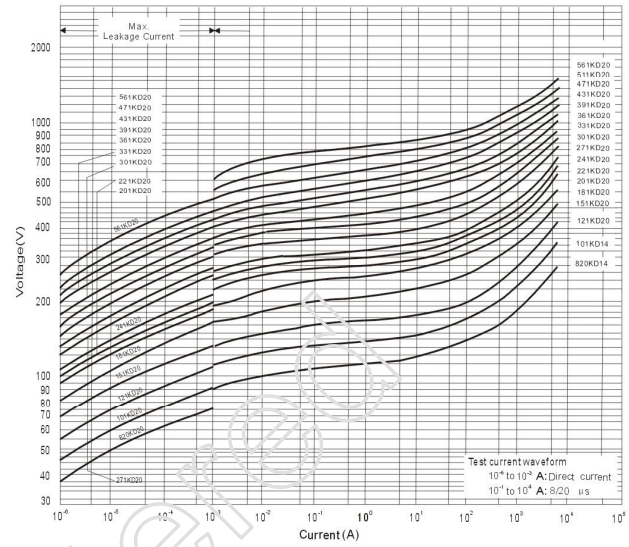
# ZINC OXIDE VARISTOR 20 $\phi$

## V-I CURVES AND LIFE TIME

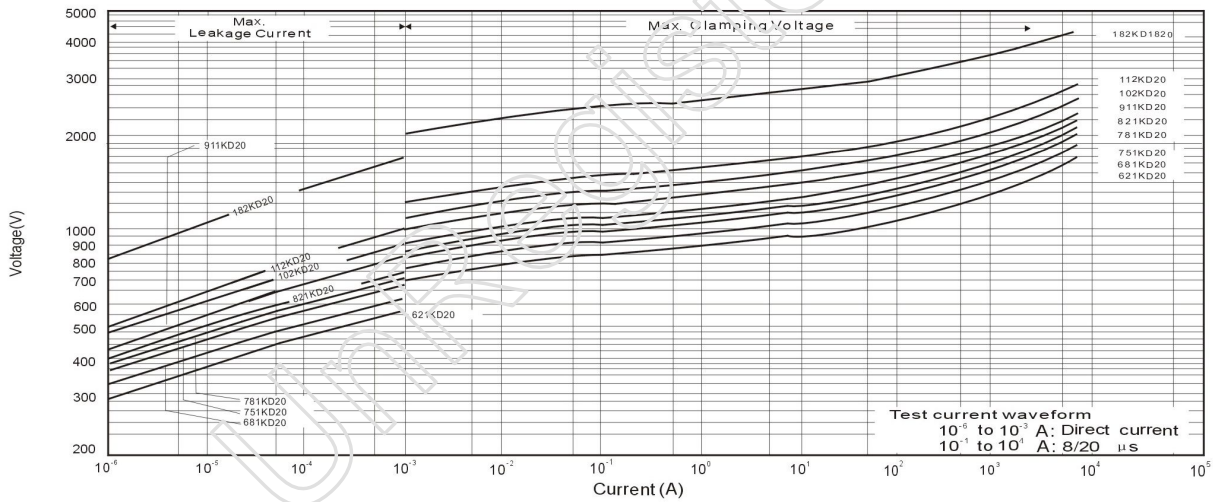
### V-I Curve [390KD20 to 680KD20]



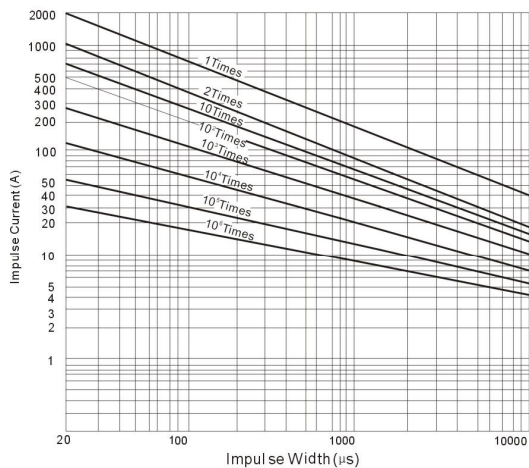
### V-I Curve [820KD20 to 561KD20]



### V-I Curve [621KD20 to 182KD20]



### Vsurge Time Ratings [390KD20 to 680KD20]



### Vsurge Time Ratings [820KD20 to 182KD20]

