

Metal Oxide Varistor Current Protected type 20mm

CPV20-2K Series

MERITEK

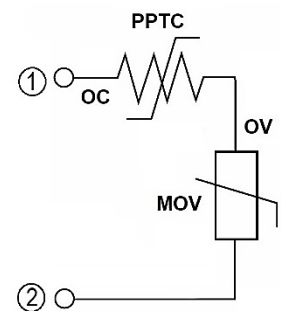
FEATURE

- Integrated PPTC and MOV Technology in a Single Protection Device
- Single Device for Overcurrent and Overvoltage Protection
- Resettable Circuit Protection Device for Cost-sensitive Equipment
- Application: Relay and Electromagnetic Valve Protection, VoIP Gateway, Analogy and ISDN Line cards, Security System, Set-top Box
- Compliance to UL1449
- UL/cUL Safety Approved: Certification No: E326004



MECHANICAL DATA

- Lead Material: Copper Clad Steel Wire, AWG20
- UL Flammability Classification 94V-0
- Solderable Characteristics: Per MIL-STD-202, method 208E



ELECTRICAL CHARACTERISTICS

Part Number	Varistor DC Voltage (at 1mA)	Max Continuous Voltage		Max Clamping Voltage (8/20µs)		Max Peak Current (8/20µs)		Max Energy (2ms)	Abnormal Overvoltage Surge Protection			Typical Capacitance @1kHz
	V _n (V _{DC})	V _{AC}	V _{DC}	V _c	I _P	1x Pulse	15x Pulse	(J)	V _{max}	I _{max}	Typical Reaction Time	(pF)
	(V)	(V _{rms})	(V)	(V)	(A)	(A)	(A)		(V)	(A)	(sec)	
CPV20201K2K*	200(185~225)	130	170	500	100	2000	1000	28	380	50	20	1900
CPV20221K2K*	220(198~242)	140	180	520	100	2000	1000	32	380	50	20	1750
CPV20241K2K*	240(216~264)	150	200	540	100	2000	1000	34	380	50	20	1600
CPV20271K2K*	270(243~297)	175	225	570	100	2000	1000	38	380	50	20	1400
CPV20301K2K*	300(270~330)	195	250	600	100	2000	1000	46	380	50	20	1100
CPV20331K2K*	330(297~363)	215	275	630	100	2000	1000	50	380	50	20	1100
CPV20361K2K*	360(324~396)	230	300	680	100	2000	1000	54	400	50	20	1100
CPV20391K2K*	390(351~429)	250	320	710	100	2000	1000	56	480	50	20	1000
CPV20431K2K*	430(387~473)	275	350	750	100	2000	1000	64	480	50	20	900
CPV20471K2K*	470(423~517)	300	385	790	100	2000	1000	68	480	50	20	800
CPV20511K2K*	510(459~561)	320	420	840	100	2000	1000	72	480	50	20	750
CPV20561K2K*	560(504~616)	350	460	915	100	2000	1000	77	600	50	10	750
CPV20621K2K*	620(558~682)	395	510	1020	100	2000	1000	85	600	50	10	570
CPV20681K2K*	680(612~748)	420	560	1120	100	2000	1000	93	690	50	10	550
CPV20751K2K*	750(675~825)	465	615	1235	100	2000	1000	101	690	50	10	530
CPV20781K2K*	780(702~858)	485	640	1290	100	2000	1000	105	690	50	10	500

Note: Operating / Storage Temperature: -40°C ~ 85°C. *: Internal control code

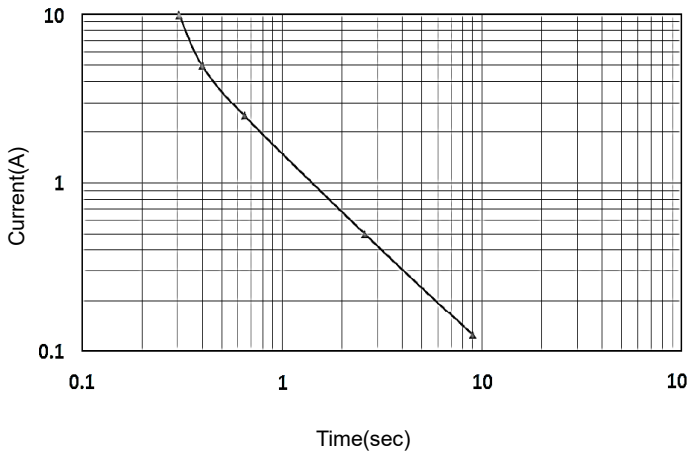
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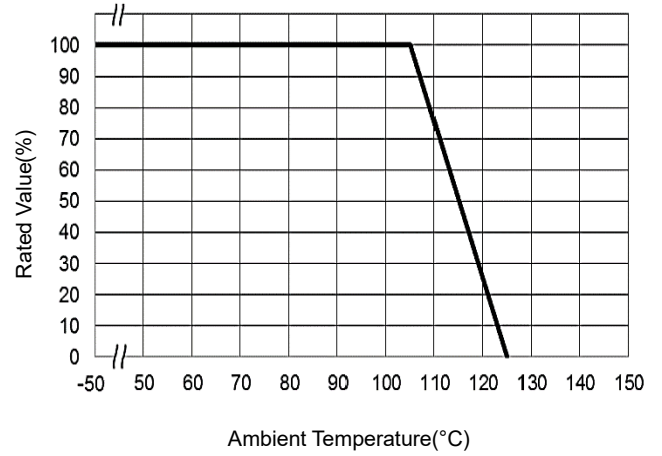
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CHARACTERISTIC CURVES

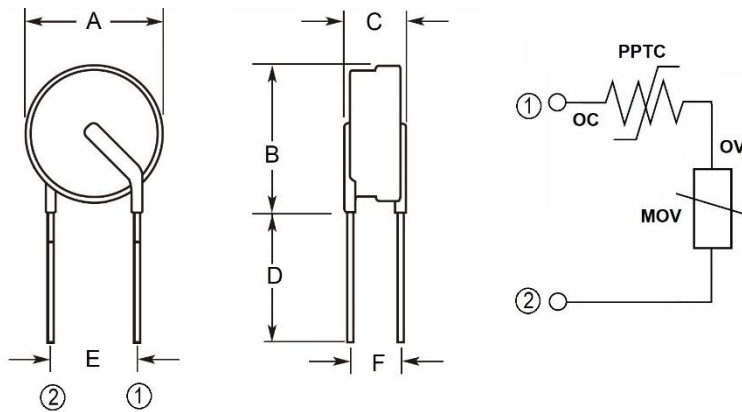
Current(Thermal) Characteristics



Power Derating



DIMENSIONS



Part Number	A		B		C	D	E		F	
	Min.	Max.	Min.	Max.	Max.	Min.	Min.	Max.	Min.	Max.
CPV20201K2K*	19.0	23.0	23.0	28.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV20221K2K*	19.0	23.0	23.0	28.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV20241K2K*	19.0	23.0	23.0	28.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV20271K2K*	19.0	23.0	23.0	28.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV20301K2K*	19.0	23.0	23.0	28.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV20331K2K*	19.0	23.0	23.0	28.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV20361K2K*	19.0	23.0	23.0	28.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV20391K2K*	19.0	23.0	23.0	28.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV20431K2K*	19.0	23.0	23.0	28.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV20471K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV20511K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV20561K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV20621K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV20681K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	4.5	7.5
CPV20751K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	5.0	8.0
CPV20781K2K*	19.0	23.0	23.0	28.0	11.0	25.4	6.5	8.5	5.0	8.0

All Dimensions in mm

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PART NUMBERING SYSTEM

CPV 20 201K 2K xx
(1) (2) (3) (4) (5)

No	Item	Code	Description
(1)	Product Code	CPV	Current Protected Metal Oxide Varistor series
(2)	Diameter	20	20: 20mm
(3)	Varistor Voltage	201K	200VDC \pm 10% First two digits: significant, Third: multiplier
(4)	Max Peak Current	2K	2K: 2000A, Max Peak Current, 8/20 μ s 1xPulse
(5)	Internal Code	xx	Internal Control or Project Reference

*Specifications subject to change without notice.