

Metal Oxide Varistor Current Protected type 10mm

CPV10-K2 Series

MERITEK

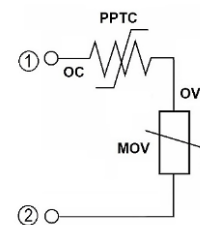
FEATURE

- 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 (8/20 μ s)		Max Peak Current (8/20 μ s)		Max Energy (2ms) (J)	Abnormal Overvoltage Surge Protection			Typical Capacitance @1kHz (pF)
	V _{DC}	V _{AC}	V _{DC}	V _c	I _p	1x Pulse	15x Pulse		V _{max}	I _{max}	Typical Reaction Time	
	(V)	(V _{rms})	(V)	(V)	(A)	(A)	(A)	(V)	(A)	(sec)		
CPV10201KK2*	200(185~225)	130	170	410	25	250	150	7	380	40	10	625
CPV10221KK2*	220(198~242)	140	180	430	25	250	150	8	380	40	10	570
CPV10241KK2*	240(216~264)	150	200	450	25	250	150	9	380	40	10	525
CPV10271KK2*	270(243~297)	175	225	480	25	250	150	10	380	40	10	470
CPV10301KK2*	300(270~330)	195	250	550	25	250	150	11	380	40	10	415
CPV10331KK2*	330(297~363)	215	275	570	25	250	150	12	380	40	10	350
CPV10361KK2*	360(324~396)	230	300	600	25	250	150	13	400	40	10	350
CPV10391KK2*	390(351~429)	250	320	650	25	250	150	14	480	40	10	325
CPV10431KK2*	430(387~473)	275	350	710	25	250	150	16	480	40	10	290
CPV10471KK2*	470(423~517)	300	385	775	25	250	150	17	480	40	10	260
CPV10511KK2*	510(459~561)	320	420	840	25	250	150	18	480	40	10	240
CPV10561KK2*	560(504~616)	350	460	915	25	250	150	19	600	40	10	200
CPV10621KK2*	620(558~682)	395	510	1020	25	250	150	21	600	40	10	170
CPV10681KK2*	680(612~748)	420	560	1120	25	250	150	22	690	40	10	160
CPV10751KK2*	750(675~825)	465	615	1235	25	250	150	24	690	40	10	150
CPV10781KK2*	780(702~858)	485	640	1290	25	250	150	25	690	40	10	150

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

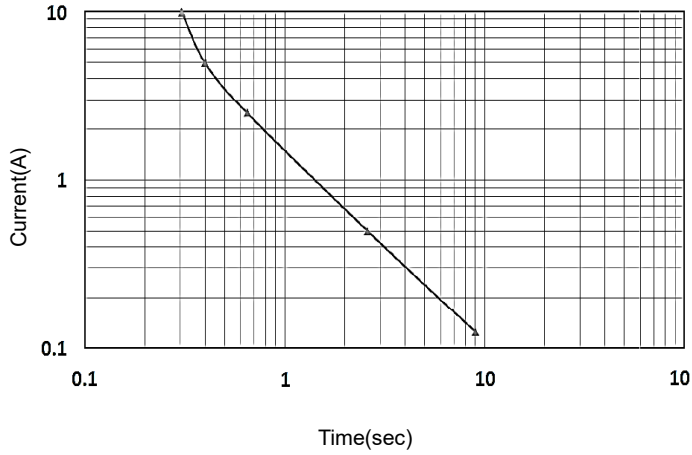
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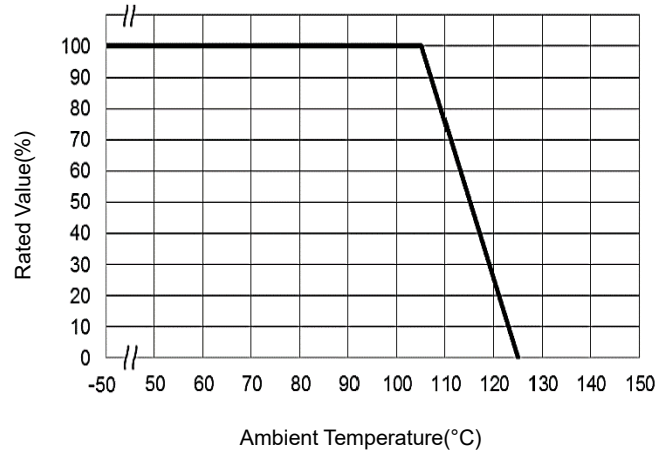
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CHARACTERISTIC CURVES

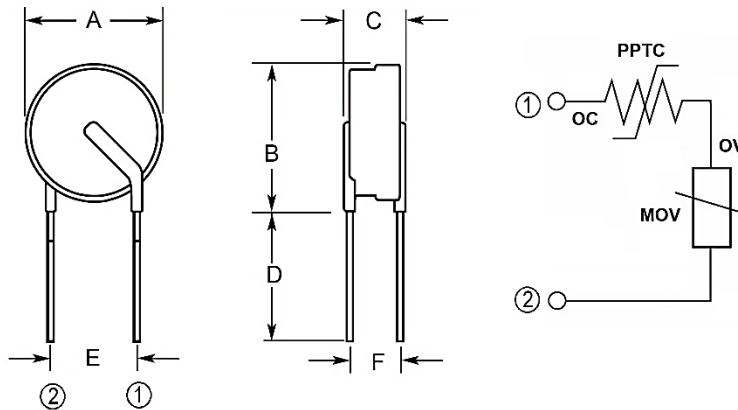
Current(Thermal) Characteristics



Power Derating



DIMENSIONS



Part Number	A		B		C	D	E		F	
	Min.	Max.	Min.	Max.	Max.	Min.	Min.	Max.	Min.	Max.
CPV10201KK2*	10.5	14.0	13.0	18.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV10221KK2*	10.5	14.0	13.0	18.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV10241KK2*	10.5	14.0	13.0	18.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV10271KK2*	10.5	14.0	13.0	18.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV10301KK2*	10.5	14.0	13.0	18.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV10331KK2*	10.5	14.0	13.0	18.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV10361KK2*	10.5	14.0	13.0	18.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV10391KK2*	10.5	14.0	13.0	18.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV10431KK2*	10.5	14.0	13.0	18.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV10471KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV10511KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV10561KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV10621KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV10681KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	4.5	7.5
CPV10751KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	5.0	8.0
CPV10781KK2*	10.5	14.0	13.0	18.0	11.0	25.4	6.5	8.5	5.0	8.0

All Dimensions in mm

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PART NUMBERING SYSTEM

CPV 10 201K K2 xx
(1) (2) (3) (4) (5)

No	Item	Code	Description
(1)	Product Code	CPV	Current Protected Metal Oxide Varistor series
(2)	Diameter	10	10: 10mm
(3)	Varistor Voltage	201K	200VDC ±10% First two digits: significant, Third: multiplier
(4)	Max Peak Current Code	K2	K2: 250A, Max Peak Current, 8/20µs 1xPulse
(5)	Internal Code	xx	Internal Control or Project Reference

*Specifications subject to change without notice.