

Metal Oxide Varistor Current Protected type 14mm

CPV14-K5 Series

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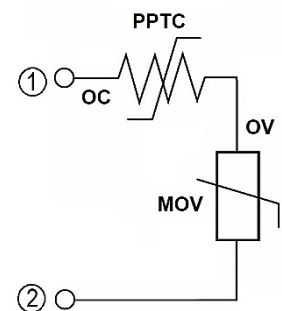
FEATURE

- 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) (J)	Abnormal Overvoltage Surge Protection			Typical Capacitance @1kHz (pF)
	V _n (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)	
CPV14201KK5*	200(185~225)	130	170	450	50	500	250	14	380	50	10	1000
CPV14221KK5*	220(198~242)	140	180	470	50	500	250	16	380	50	10	900
CPV14241KK5*	240(216~264)	150	200	490	50	500	250	17	380	50	10	800
CPV14271KK5*	270(243~297)	175	225	520	50	500	250	19	380	50	10	700
CPV14301KK5*	300(270~330)	195	250	530	50	500	250	21	380	50	10	600
CPV14331KK5*	330(297~363)	215	275	570	50	500	250	23	380	50	10	580
CPV14361KK5*	360(324~396)	230	300	600	50	500	250	25	400	50	10	550
CPV14391KK5*	390(351~429)	250	320	650	50	500	250	28	480	50	10	500
CPV14431KK5*	430(387~473)	275	350	710	50	500	250	32	480	50	10	450
CPV14471KK5*	470(423~517)	300	385	775	50	500	250	34	480	50	10	400
CPV14511KK5*	510(459~561)	320	420	840	50	500	250	36	480	50	10	380
CPV14561KK5*	560(504~616)	350	460	915	50	500	250	39	600	50	10	380
CPV14621KK5*	620(558~682)	395	510	1020	50	500	250	43	600	50	10	350
CPV14681KK5*	680(612~748)	420	560	1120	50	500	250	46	690	50	10	350
CPV14751KK5*	750(675~825)	465	615	1235	50	500	250	50	690	50	10	330
CPV14781KK5*	780(702~858)	485	640	1290	50	500	250	52	690	50	10	330

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

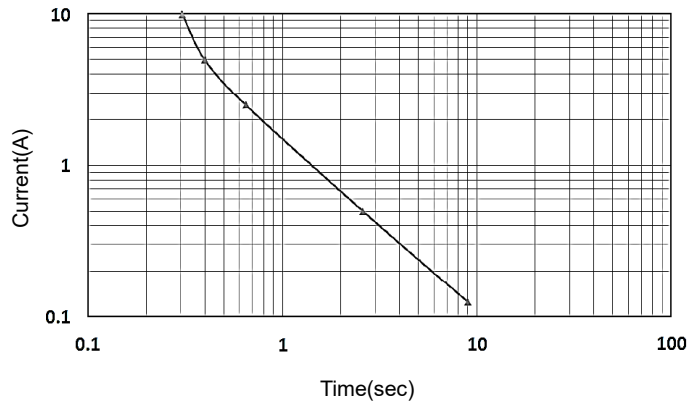
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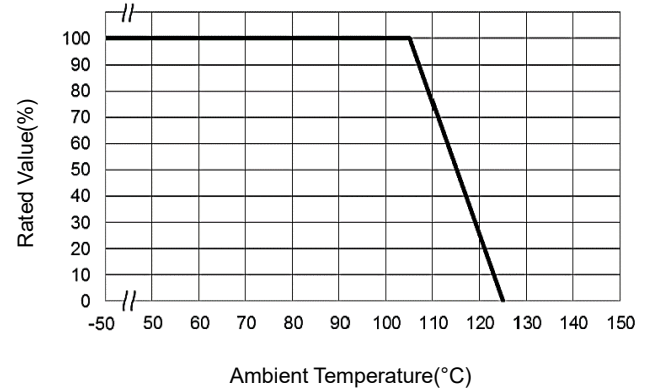
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CHARACTERISTIC CURVES

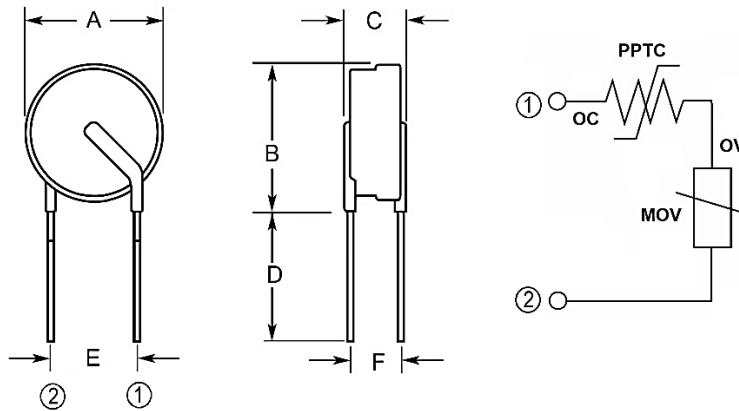
Current (Thermal) Characteristics – CPV14 Series



Power Derating



DIMENSIONS



Part Number	A		B		C	D	E		F	
	Min	Max	Min	Max	Max	Min	Min	Max	Min	Max
CPV14201KK5*	13.5	17.0	17.0	22.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV14221KK5*	13.5	17.0	17.0	22.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV14241KK5*	13.5	17.0	17.0	22.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV14271KK5*	13.5	17.0	17.0	22.0	9.0	25.4	6.5	8.5	2.0	5.0
CPV14301KK5*	13.5	17.0	17.0	22.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV14331KK5*	13.5	17.0	17.0	22.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV14361KK5*	13.5	17.0	17.0	22.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV14391KK5*	13.5	17.0	17.0	22.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV14431KK5*	13.5	17.0	17.0	22.0	9.5	25.4	6.5	8.5	2.5	5.5
CPV14471KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV14511KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV14561KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV14621KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	4.0	7.0
CPV14681KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	4.5	7.5
CPV14751KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	5.0	8.0
CPV14781KK5*	13.5	17.0	17.0	22.0	11.0	25.4	6.5	8.5	5.0	8.0

All Dimensions in mm

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PART NUMBERING SYSTEM

CPV 14 201K K5 xx
(1) (2) (3) (4) (5)

No	Item	Code	Description
(1)	Product Code	CPV	Current Protected Metal Oxide Varistor series
(2)	Diameter	14	14: 14mm
(3)	Varistor Voltage	201K	200VDC \pm 10% First two digits: significant, Third: multiplier
(4)	Max Peak Current	K5	K5: 500A, Max Peak Current, 8/20 μ s 1xPulse
(5)	Internal Code	xx	Internal Control or Project Reference

*Specifications subject to change without notice.