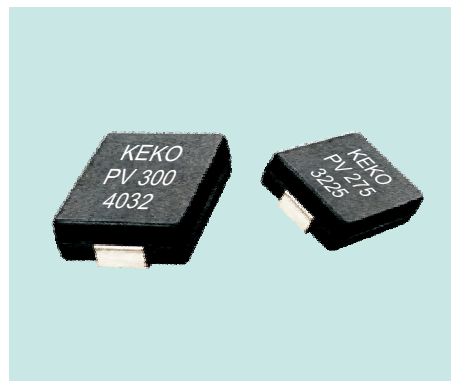


LOW & MEDIUM VOLTAGE PLASTICS-ENCAPSULATED VARISTORS PV SERIES

Description

PV Series of low & medium voltage plastics-encapsulated varistors is designed to protect electronic equipment against high voltage surges in the low & medium voltage region. They offer direct SMD equivalents to leaded disc varistors of size 5 and 7 mm. Thermoplastic encapsulation is non-flammable according to standard UL 94 V-0. Contacts are made of tinned copper sheet.



PV varistors are designed for surface mounting and are available in two model sizes. These transient voltage suppressers cover operating voltage V_{rms} from 11 V to 300 V, featuring maximum surge currents from 100 A to 1200 A.

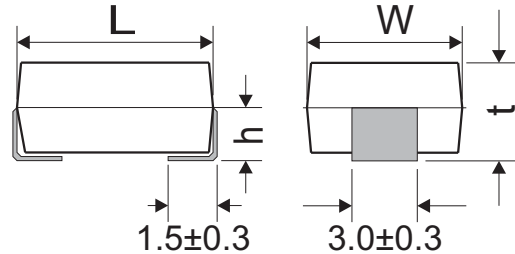
Features

- Fully Lead-free component
- Operating voltage range V_{dc} 14 V to 385 V
- Operating voltage V_{rms} 11 V to 300 V
- 2 Model sizes available3225 and 4032
- + 85 °C continuous operating temperature
- Dimensional and weight savings on the board
- Easy solderable tinned copper sheet
- Non-flammable thermoplastic encapsulation according to standard UL 94 V -0
- Available in tape and reel for automatic pick and place
- us UL1449 & CSA C22.2 File E221545 Section 3.

Absolute Maximum Ratings

Continuous :	Units	Value
Steady State Applied Voltage :		
DC Voltage Range (V_{dc})	V	14 to 385
AC Voltage Range (V_{rms})	V	11 to 300
Transient :		
Non-Repetitive Surge Current, 8/20 μ s Waveform, (I_{max})	A	100 to 1200
Non-Repetitive Surge Energy, 10/1000 μ s Waveform (W_{max})	J	0,6 to 30
Operating Ambient Temperature	°C	-40 to +85
Storage Temperature Range	°C	-40 to +125
Threshold Voltage Temperature Coefficient	%/°C	< +0.05
Response Time	ns	< 5
Climatic Category		40 / 85 / 56

Device Ratings and Characteristics



PV 11 K 3225.....PV 300 K 4032

Type	V _{rms} V	V _{dc} V	V _n @ 1 mA V	V _c V	I _c A	W _{max} 10/1000 μs J	P max W	I _{max} 8/20 μs A	C _{typ} @ 1 kHz pF	h ± 0,3 mm	L ± 0,5 mm	W ± 0,4 mm	t ± 0,3 mm
PV 11 K 3225	11	14	18	36	2,5	0,6	0.01	100	1600	1,7	8,0	6,3	3,4
PV 11 K 4032	11	14	18	36	5	1,1	0.02	250	3100	2,3	10,0	8,0	4,7
PV 14 K 3225	14	18	22	43	2,5	0,7	0.01	100	1300	1,7	8,0	6,3	3,4
PV 14 K 4032	14	18	22	43	5	1,3	0.02	250	2500	2,3	10,0	8,0	4,7
PV 17 K 3225	17	22	27	53	2,5	0,9	0.01	100	1050	1,7	8,0	6,3	3,4
PV 17 K 4032	17	22	27	53	5	1,6	0.02	250	1900	2,3	10,0	8,0	4,7
PV 20 K 3225	20	26	33	65	2,5	1,1	0.01	100	750	1,7	8,0	6,3	3,4
PV 20 K 4032	20	26	33	65	5	2,0	0.02	250	1500	2,3	10,0	8,0	4,7
PV 25 K 3225	25	31	39	77	2,5	1,2	0.01	100	660	1,7	8,0	6,3	3,4
PV 25 K 4032	25	31	39	77	5	2,4	0.02	250	1260	2,3	10,0	8,0	4,7
PV 30 K 3225	30	38	47	93	2,5	1,5	0.01	100	580	1,7	8,0	6,3	3,4
PV 30 K 4032	30	38	47	93	5	2,8	0.02	250	1050	2,3	10,0	8,0	4,7
PV 35 K 3225	35	45	56	110	2,5	1,8	0.01	100	460	1,7	8,0	6,3	3,4
PV 35 K 4032	35	45	56	110	5	3,4	0.02	250	850	2,3	10,0	8,0	4,7
PV 40 K 3225	40	56	68	135	2,5	2,2	0.01	100	400	1,7	8,0	6,3	3,4
PV 40 K 4032	40	56	68	135	5	4,1	0.02	250	720	2,3	10,0	8,0	4,7
PV 50 K 3225	50	65	82	135	5	2,5	0,10	400	390	1,7	8,0	6,3	3,4
PV 50 K 4032	50	65	82	135	10	6,5	0,25	1200	820	2,3	10,0	8,0	4,7
PV 60 K 3225	60	85	100	165	5	3,0	0,10	400	330	1,7	8,0	6,3	3,4
PV 60 K 4032	60	85	100	165	10	7,0	0,25	1200	680	2,3	10,0	8,0	4,7
PV 75 K 3225	75	100	120	200	5	4,0	0,10	400	270	1,7	8,0	6,3	3,4
PV 75 K 4032	75	100	120	200	10	9,0	0,25	1200	550	2,3	10,0	8,0	4,7
PV 95 K 3225	95	125	150	250	5	6,0	0,10	400	220	1,7	8,0	6,3	3,4
PV 95 K 4032	95	125	150	250	10	11,0	0,25	1200	440	2,3	10,0	8,0	4,7
PV 115 K 3225	115	150	180	300	5	6,5	0,10	400	180	1,7	8,0	6,3	3,4
PV 115 K 4032	115	150	180	300	10	13,0	0,25	1200	360	2,3	10,0	8,0	4,7
PV 130 K 3225	130	170	205	340	5	7,0	0,10	400	160	1,7	8,0	6,3	3,4
PV 130 K 4032	130	170	205	340	10	15,0	0,25	1200	320	2,3	10,0	8,0	4,7
PV 140 K 3225	140	180	220	360	5	7,5	0,10	400	150	1,7	8,0	6,3	3,4
PV 140 K 4032	140	180	220	360	10	18,0	0,25	1200	300	2,3	10,0	8,0	4,7
PV 150 K 3225	150	200	240	395	5	9,0	0,10	400	140	1,7	8,0	6,3	3,4
PV 150 K 4032	150	200	240	395	10	18,5	0,25	1200	280	2,3	10,0	8,0	4,7
PV 175 K 3225	175	225	270	455	5	9,5	0,10	400	120	2,3	8,0	6,3	4,7
PV 175 K 4032	175	225	270	455	10	21,0	0,25	1200	250	2,3	10,0	8,0	4,7
PV 230 K 3225	230	300	360	595	5	10,0	0,10	400	95	2,3	8,0	6,3	4,7
PV 230 K 4032	230	300	360	595	10	23,0	0,25	1200	190	2,3	10,0	8,0	4,7
PV 250 K 3225	250	320	390	650	5	11,0	0,10	400	80	2,3	8,0	6,3	4,7
PV 250 K 4032	250	320	390	650	10	25,0	0,25	1200	180	2,3	10,0	8,0	4,7
PV 275 K 3225	275	350	430	710	5	13,0	0,10	400	75	2,3	8,0	6,3	4,7
PV 275 K 4032	275	350	430	710	10	29,0	0,25	1200	160	2,3	10,0	8,0	4,7
PV 300 K 3225	300	385	470	775	5	15,0	0,10	400	70	2,3	8,0	6,3	4,7
PV 300 K 4032	300	385	470	775	10	30,0	0,25	1200	150	2,3	10,0	8,0	4,7

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