

TRANSIENT VOLTAGE SUPPRESSORS P4KE SERIES

Operating Temperature -65°C to +175°C

Device	Breakdown Voltage		Working Peak Reverse Voltage V _{RRM} (Volts)	Maximum Reverse Leakage at V _{RRM} I _R (μA)	Maximum Reverse Current I _{RSM} (Amps)	MAX. Clamping Voltage V _{RSM} (Volts)	Maximum Temperature Coefficient of V _{BR} (%/C)	OUTLINE INCHES (mm)	
	B _{BR} (Volts)								@IT (mA)
	MIN	MAX							
P4KE6.8	6.12	7.48	10	5.50	1000	38	10.8	0.057	
P4KE6.8A	6.45	7.14	10	5.80	1000	40	10.5	0.057	
P4KE7.5	6.75	8.25	10	6.05	500	36	11.7	0.061	
P4KE7.5A	7.13	7.88	10	6.40	500	37	11.3	0.061	
P4KE8.2	7.38	9.02	10	6.63	200	33	12.5	0.065	
P4KE8.2A	7.79	8.61	10	7.02	200	35	12.1	0.065	
P4KE9.1	8.19	10.0	1.0	7.37	50	30	13.8	0.068	
P4KE9.1A	8.65	9.55	1.0	7.78	50	31	13.4	0.068	
P4KE10	9.00	11.0	1.0	8.10	10	28	15.0	0.073	
P4KE10A	9.50	10.5	1.0	8.55	10	29	14.5	0.073	
P4KE11	9.90	12.1	1.0	8.92	5.0	26	16.2	0.075	
P4KE11A	10.5	11.6	1.0	9.40	5.0	27	15.6	0.075	
P4KE12	10.8	13.2	1.0	9.72	5.0	24	17.3	0.076	
P4KE12A	11.4	12.6	1.0	10.2	5.0	25	16.7	0.078	
P4KE13	11.7	14.3	1.0	10.5	5.0	22	19.0	0.081	
P4KE13A	12.4	13.7	1.0	11.1	5.0	23	18.2	0.081	
P4KE15	13.5	16.3	1.0	12.1	5.0	19	22.0	0.084	
P4KE15A	14.3	15.8	1.0	12.8	5.0	20	21.2	0.084	
P4KE16	14.4	17.6	1.0	12.9	5.0	18	23.5	0.086	
P4KE16A	15.2	16.8	1.0	13.6	5.0	19	22.5	0.086	
P4KE18	16.2	19.8	1.0	14.5	5.0	16	26.5	0.088	
P4KE18A	17.1	18.9	1.0	15.3	5.0	17	25.5	0.088	
P4KE20	18.0	22.0	1.0	16.2	5.0	14	29.1	0.090	
P4KE20A	19.0	21.0	1.0	17.1	5.0	15	27.7	0.090	
P4KE22	19.8	24.2	1.0	17.8	5.0	13	31.9	0.092	
P4KE22A	20.9	23.1	1.0	18.8	5.0	14	30.6	0.092	
P4KE24	21.6	26.4	1.0	19.4	5.0	12	34.7	0.094	
P4KE24A	22.8	25.2	1.0	20.5	5.0	13	33.2	0.094	
P4KE27	24.3	29.7	1.0	21.8	5.0	11	39.1	0.096	
P4KE27A	25.7	28.4	1.0	23.1	5.0	11.2	37.5	0.096	
P4KE30	27.0	33.0	1.0	24.3	5.0	10	43.5	0.097	
P4KE30A	28.5	31.5	1.0	25.6	5.0	10	41.4	0.097	
P4KE33	29.7	36.3	1.0	26.8	5.0	9	47.7	0.098	
P4KE33A	31.4	34.7	1.0	28.2	5.0	9	45.7	0.098	
P4KE36	32.4	39.6	1.0	29.1	5.0	8	52.0	0.099	
P4KE36A	34.2	37.8	1.0	30.8	5.0	8.4	49.9	0.099	
P4KE39	35.1	42.9	1.0	31.6	5.0	7.4	56.4	0.100	
P4KE39A	37.1	41.0	1.0	33.3	5.0	7.8	53.9	0.100	
P4KE43	38.7	47.3	1.0	34.8	5.0	6.8	61.9	0.101	
P4KE43A	40.9	45.2	1.0	36.8	5.0	7.1	59.3	0.101	
P4KE47	42.3	51.7	1.0	38.1	5.0	6.2	67.8	0.101	
P4KE47A	44.7	49.4	1.0	40.2	5.0	6.5	64.8	0.101	
P4KE51	45.9	56.1	1.0	41.3	5.0	5.7	73.5	0.102	
P4KE51A	48.5	53.6	1.0	43.6	5.0	6.0	70.1	0.102	
P4KE56	50.4	61.6	1.0	45.4	5.0	5.2	80.5	0.103	
P4KE56A	53.2	58.8	1.0	47.8	5.0	5.5	77.0	0.103	
P4KE62	55.8	68.2	1.0	50.2	5.0	4.7	89.0	0.104	
P4KE62A	58.9	65.1	1.0	53.0	5.0	5.0	85.0	0.104	
P4KE68	61.2	74.8	1.0	55.1	5.0	4.3	98.0	0.104	
P4KE68A	64.6	71.4	1.0	58.1	5.0	4.6	92.0	0.104	
P4KE75	67.5	82.5	1.0	60.7	5.0	3.9	108.0	0.105	
P4KE75A	71.3	78.8	1.0	64.1	5.0	4.1	103.0	0.105	
P4KE82	73.8	90.2	1.0	66.4	5.0	3.6	118.0	0.105	
P4KE82A	77.9	86.1	1.0	70.1	5.0	3.7	113.0	0.105	
P4KE91	81.9	100.0	1.0	73.7	5.0	3.2	131.8	0.106	
P4KE91A	86.5	95.50	1.0	77.8	5.0	3.4	125.0	0.106	
P4KE100	90.0	110.0	1.0	81.0	5.0	2.9	144.0	0.106	
P4KE100A	95.0	105.0	1.0	85.5	5.0	3.1	137.0	0.106	
P4KE110	99.0	121.0	1.0	89.2	5.0	2.7	158.0	0.107	
P4KE110A	105.0	116.0	1.0	94.0	5.0	2.8	152.0	0.107	
P4KE120	108.0	132.0	1.0	97.2	5.0	2.4	173.0	0.107	
P4KE120A	114.0	126.0	1.0	102.0	5.0	2.5	165.0	0.107	
P4KE130	117.0	143.0	1.0	105.0	5.0	2.2	187.0	0.107	
P4KE130A	124.0	137.0	1.0	111.0	5.0	2.3	179.0	0.107	
P4KE150	135.0	165.0	1.0	121.0	5.0	2.0	215.0	0.108	
P4KE150A	143.0	158.0	1.0	128.0	5.0	2.0	207.0	0.108	
P4KE160	144.0	176.0	1.0	130.0	5.0	1.8	230.0	0.108	
P4KE160A	152.0	168.0	1.0	136.0	5.0	1.9	219.0	0.108	
P4KE170	153.0	187.0	1.0	138.0	5.0	1.7	244.0	0.108	
P4KE170A	162.0	179.0	1.0	145.0	5.0	1.8	234.0	0.108	
P4KE180	162.0	198.0	1.0	146.0	5.0	1.6	258.0	0.108	
P4KE180A	171.0	189.0	1.0	154.0	5.0	1.7	246.0	0.108	
P4KE200	180.0	220.0	1.0	162.0	5.0	1.5	287.0	0.108	
P4KE200A	190.0	210.0	1.0	171.0	5.0	1.53	274.0	0.108	
P4KE220	198.0	242.0	1.0	175.0	5.0	1.16	344.0	0.108	
P4KE220A	209.0	231.0	1.0	185.0	5.0	1.22	328.0	0.108	
P4KE250	225.0	275.0	1.0	202.0	5.0	1.11	360.0	0.110	
P4KE250A	237.0	267.0	1.0	214.0	5.0	1.16	344.0	0.110	
P4KE300	270.0	330.0	1.0	243.0	5.0	0.93	430.0	0.110	
P4KE300A	285.0	315.0	1.0	256.0	5.0	0.97	414.0	0.110	
P4KE350	315.0	385.0	1.0	284.0	5.0	0.79	504.0	0.110	
P4KE350A	332.0	368.0	1.0	300.0	5.0	0.83	482.0	0.110	
P4KE400	360.0	440.0	1.0	324.0	5.0	0.70	574.0	0.110	
P4KE400A	380.0	420.0	1.0	342.0	5.0	0.73	548.0	0.110	

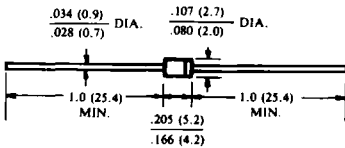


Diagram illustrating the DO41 package outline dimensions in inches and millimeters:

- Overall length: 1.0 (25.4) MIN.
- Overall width: 0.080 (2.0) DIA.
- Lead length: 0.107 (2.7) DIA.
- Lead thickness: 0.034 (0.9) DIA.
- Lead spacing: 0.028 (0.7) DIA.
- Mounting hole diameter: 0.205 (5.2) DIA.
- Mounting hole spacing: 1.0 (25.4) MIN.

NOTE:

1. $V_f = 3.5$ V at $I_f = 25$ A (P4KE6.8 thru P4KE91A)
 $V_f = 5.0$ V at $I_f = 25$ A (P4KE100 thru P4KE400A)
on 1/2 Square or Equivalent Sine Wave.
PW = 8.3ms, Duty Cycle $\times$ 4 Pulses per Minute Maximum
2. For Bipolar types moving V_{RR} 10 volts and under,
the I_R limit is doubled.