

# P6KE SERIES

CASE : DO-15

PART NO.	Resistance Voltage			Leakage Current at Voltage $V_{100}$ (VDC)	Maximum Energy Dissipation at 100°C (mJ)	Minimum Peak Pulse Current (mA)	Maximum Dissipation Voltage at 100°C (VDC)	Maximum Temperature Coefficient of $R_{25}$ (%/°C)
	$V_{100}$ (VDC)		$DL_{100}$ (%)					
	MIN.	MAX.						
P6KE6A	6.12	7.48	10	5.50	1000	56	10.8	0.057
P6KE6B	6.45	7.14	10	5.80	1000	57	10.5	0.057
P6KE7A	6.75	8.25	10	6.05	500	51	11.7	0.061
P6KE7B	7.13	7.88	10	6.40	500	53	11.3	0.061
P6KE8A	7.38	9.02	10	6.63	200	48	12.5	0.065
P6KE8B	7.79	8.61	10	7.02	200	50	12.1	0.065
P6KE9A	8.19	10.0	1.0	7.37	50	44	13.8	0.068
P6KE9B	8.65	9.55	1.0	7.78	50	45	13.4	0.068
P6KE10	9.00	11.0	1.0	8.10	10	40	15.0	0.073
P6KE10A	9.50	10.5	1.0	8.55	10	41	14.5	0.073
P6KE11	9.90	12.1	1.0	8.92	5.0	37	16.2	0.075
P6KE11A	10.5	11.6	1.0	9.40	5.0	38	15.6	0.075
P6KE12	10.8	13.2	1.0	9.72	5.0	35	17.3	0.076
P6KE12A	11.4	12.6	1.0	10.2	5.0	36	16.7	0.078
P6KE13	11.7	14.3	1.0	10.5	5.0	32	19.0	0.081
P6KE13A	12.4	13.7	1.0	11.1	5.0	33	18.2	0.081
P6KE15	13.5	16.3	1.0	12.1	5.0	27	22.0	0.084
P6KE15A	14.3	15.8	1.0	12.8	5.0	28	21.2	0.084
P6KE16	14.4	17.6	1.0	12.9	5.0	26	23.5	0.086
P6KE16A	15.2	16.8	1.0	13.6	5.0	27	22.5	0.086
P6KE18	16.2	19.8	1.0	14.5	5.0	23	26.5	0.088
P6KE18A	17.1	18.9	1.0	15.3	5.0	24	25.5	0.088
P6KE20	18.0	22.0	1.0	16.2	5.0	21	29.1	0.090
P6KE20A	19.0	21.0	1.0	17.1	5.0	22	27.7	0.090
P6KE22	19.8	24.2	1.0	17.8	5.0	19	31.9	0.092
P6KE22A	20.9	23.1	1.0	18.8	5.0	20	30.6	0.092
P6KE24	21.6	26.4	1.0	19.4	5.0	17	34.7	0.094
P6KE24A	22.8	25.2	1.0	20.5	5.0	18	33.2	0.094
P6KE27	24.3	29.7	1.0	21.8	5.0	15	39.1	0.096
P6KE27A	25.7	28.4	1.0	23.1	5.0	16	37.5	0.096
P6KE30	27.0	33.0	1.0	24.3	5.0	14	43.5	0.097
P6KE30A	28.5	31.5	1.0	25.6	5.0	14.4	41.4	0.097
P6KE33	29.7	36.3	1.0	26.8	5.0	12.6	47.7	0.098
P6KE33A	31.4	34.7	1.0	28.2	5.0	13.2	45.7	0.098
P6KE36	32.4	39.6	1.0	29.1	5.0	11.6	52.0	0.099
P6KE36A	34.2	37.8	1.0	30.8	5.0	12.0	49.9	0.099
P6KE40	35.1	42.9	1.0	31.6	5.0	10.6	56.4	0.100
P6KE40A	37.1	41.0	1.0	33.3	5.0	11.2	53.9	0.100
P6KE45	38.7	47.3	1.0	34.8	5.0	9.6	61.9	0.101
P6KE45A	40.9	45.2	1.0	36.8	5.0	10.1	59.3	0.101
P6KE50	42.3	51.7	1.0	38.1	5.0	8.9	67.8	0.101
P6KE50A	44.7	49.4	1.0	40.2	5.0	9.3	64.8	0.101
P6KE55	45.9	56.1	1.0	41.3	5.0	8.2	73.5	0.102
P6KE55A	48.5	53.6	1.0	43.6	5.0	8.6	70.1	0.102
P6KE60	50.4	61.6	1.0	45.4	5.0	7.4	80.5	0.103
P6KE60A	53.2	58.8	1.0	47.8	5.0	7.8	77.0	0.103
P6KE70	55.8	68.2	1.0	50.2	5.0	6.8	89.0	0.104
P6KE70A	58.9	65.1	1.0	53.0	5.0	7.1	85.0	0.104

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PART NO.	Breakdown Voltage			Reverse Stand off Voltage $V_{RR}$ (Volts)	Maximum Reverse Leakage at $V_{RR}$ ( $\mu$ as)	Maximum Peak Pulse Current $I_{PPM}$ (Amps)	Maximum Clamping Voltage at $I_{PPM}$ $V_C$ (Volts)	Maximum Temperature Coefficient of $V_{BR}$ (%/C)
	$V_{BR}$ (Volts)		$IR_T$ (as)					
	MIN.	MAX.						
P6KE60	61.2	74.8	1.0	55.1	5.0	6.1	98.0	0.104
P6KE60A	64.6	71.4	1.0	58.1	5.0	6.5	92.0	0.104
P6KE75	67.5	82.5	1.0	60.7	5.0	5.5	108	0.105
P6KE75A	71.3	78.8	1.0	64.1	5.0	5.8	103	0.105
P6KE90	73.8	90.2	1.0	66.4	5.0	5.1	118	0.105
P6KE90A	77.9	86.1	1.0	70.1	5.0	5.3	113	0.105
P6KE105	81.9	100	1.0	73.7	5.0	4.5	131	0.106
P6KE105A	86.5	95.5	1.0	77.8	5.0	4.8	125	0.106
P6KE120	90.0	110	1.0	81.0	5.0	4.2	144	0.106
P6KE120A	95.0	105	1.0	85.5	5.0	4.4	137	0.106
P6KE135	99.0	121	1.0	89.2	5.0	3.8	158	0.107
P6KE135A	105	116	1.0	94.0	5.0	4.0	152	0.107
P6KE150	108	132	1.0	97.2	5.0	3.5	173	0.107
P6KE150A	114	126	1.0	102	5.0	3.6	165	0.107
P6KE165	117	143	1.0	105	5.0	3.2	187	0.107
P6KE165A	124	137	1.0	111	5.0	3.3	179	0.107
P6KE180	135	165	1.0	121	5.0	2.8	215	0.108
P6KE180A	143	158	1.0	128	5.0	2.9	207	0.108
P6KE200	144	176	1.0	130	5.0	2.6	230	0.108
P6KE200A	152	168	1.0	136	5.0	2.7	219	0.108
P6KE225	153	187	1.0	138	5.0	2.5	244	0.108
P6KE225A	162	179	1.0	145	5.0	2.6	234	0.108
P6KE240	162	198	1.0	146	5.0	2.3	258	0.108
P6KE240A	171	189	1.0	154	5.0	2.4	246	0.108
P6KE270	180	220	1.0	162	5.0	2.1	287	0.108
P6KE270A	190	210	1.0	171	5.0	2.2	274	0.108
P6KE300	198	242	1.0	175	5.0	1.75	344	0.108
P6KE300A	209	231	1.0	185	5.0	1.83	328	0.108
P6KE330	225	275	1.0	202	5.0	1.67	360	0.110
P6KE330A	237	267	1.0	214	5.0	1.75	344	0.110
P6KE360	270	330	1.0	243	5.0	1.40	430	0.110
P6KE360A	285	315	1.0	256	5.0	1.45	414	0.110
P6KE390	315	385	1.0	284	5.0	1.20	504	0.110
P6KE390A	332	368	1.0	300	5.0	1.25	482	0.110
P6KE400	360	440	1.0	324	5.0	1.05	574	0.110
P6KE400A	380	420	1.0	342	5.0	1.10	548	0.110

NOTES: 1.  $V_{BR}$  measured after  $I_T$  applied for 300ms.  $I_T$  = square wave pulse or equivalent.

2. For bidirectional use C or CA suffixes for all types(ex. P6KE6.8C,P6KE400CA) electrical characteristics apply in both directions.

3. For bidirectional types having  $V_R$  of 10 volts and less, the  $I_D$  limit is doubled.