

AXIAL LEAD SERIES TVS

SPECIFICATION

1.5KE SERIES**GLASS ASSOCIATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR****VOLTAGE - 6.8 to 440 Volts****1500 Watts Peak Power 6.5 Watt Steady State**

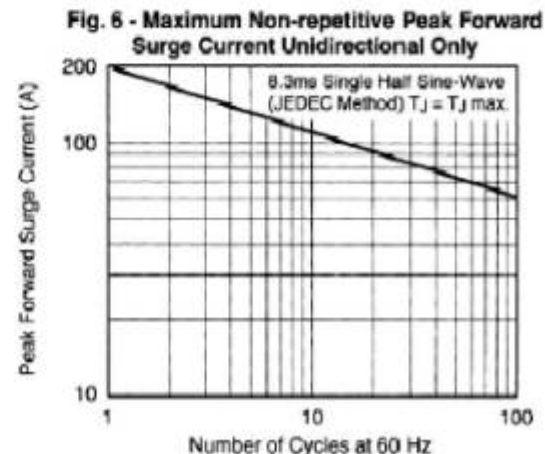
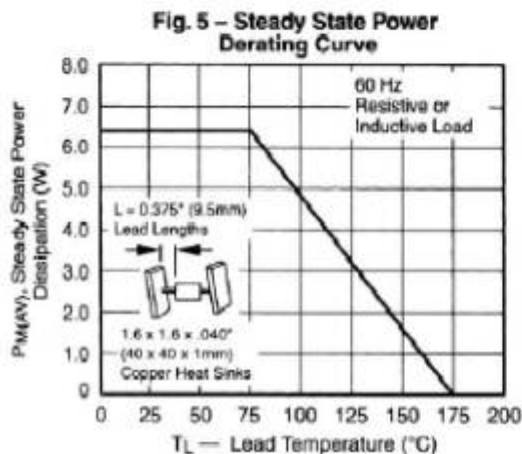
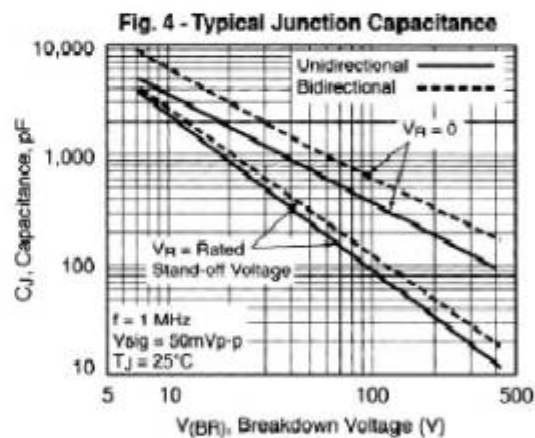
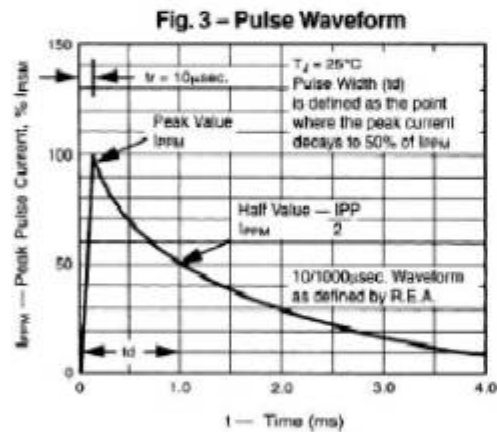
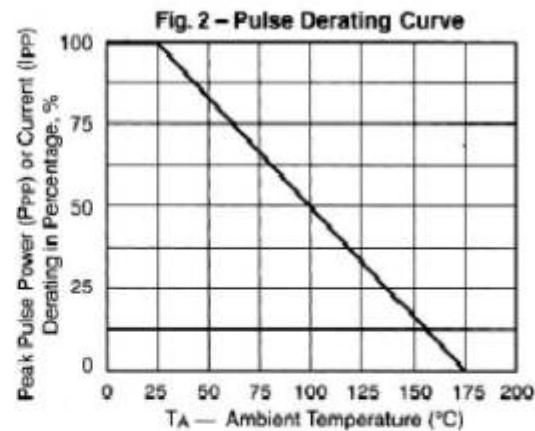
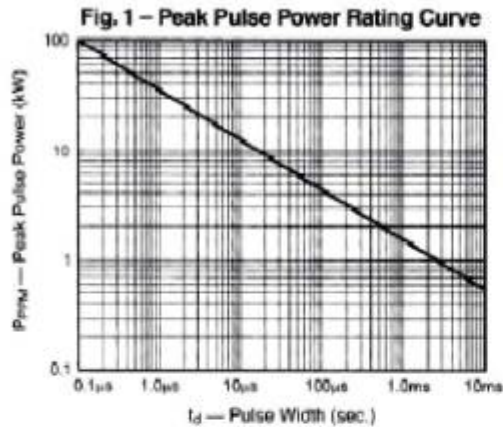
1.5KE PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN.@ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX.@ I_T	TEST CURRENT $I_T(mA)$	MAXIMUM CLAMPING VOLTAGE $V_C(V)$ @ I_{PP}	PEAK PULSE CURRENT $I_{PP}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI- POLAR	BI-POLAR							
1.5KE6.8A	1.5KE6.8CA	5.80	6.45	7.14	10	10.5	144.8	1000
1.5KE7.5A	1.5KE7.5CA	6.40	7.13	7.88	10	11.3	134.5	500
1.5KE8.2A	1.5KE8.2CA	7.02	7.79	8.61	10	12.1	125.6	200
1.5KE9.1A	1.5KE9.1CA	7.78	8.65	9.50	1	13.4	113.4	50
1.5KE10A	1.5KE10CA	8.55	9.50	10.50	1	14.5	104.8	10
1.5KE11A	1.5KE11CA	9.40	10.50	11.60	1	15.6	97.4	5
1.5KE12A	1.5KE12CA	10.20	11.40	12.60	1	16.7	91.0	5
1.5KE13A	1.5KE13CA	11.10	12.40	13.70	1	18.2	83.5	5
1.5KE15A	1.5KE15CA	12.80	14.30	15.80	1	21.2	71.7	5
1.5KE16A	1.5KE16CA	13.60	15.20	16.80	1	22.5	67.6	5
1.5KE18A	1.5KE18CA	15.30	17.10	18.90	1	25.2	60.3	5
1.5KE20A	1.5KE20CA	17.10	19.00	21.00	1	27.7	54.9	5
1.5KE22A	1.5KE22CA	18.80	20.90	23.10	1	30.6	49.7	5
1.5KE24A	1.5KE24CA	20.50	22.80	25.20	1	33.2	45.8	5
1.5KE27A	1.5KE27CA	23.10	25.70	28.40	1	37.5	40.5	5
1.5KE30A	1.5KE30CA	25.60	28.50	31.50	1	41.4	36.7	5
1.5KE33A	1.5KE33CA	28.20	31.40	34.70	1	45.7	33.3	5
1.5KE36A	1.5KE36CA	30.80	34.20	37.80	1	49.9	30.5	5
1.5KE39A	1.5KE39CA	33.30	37.10	41.00	1	53.9	28.2	5
1.5KE43A	1.5KE43CA	36.80	40.90	45.20	1	59.3	25.6	5
1.5KE47A	1.5KE47CA	40.20	44.70	49.40	1	64.8	23.5	5
1.5KE51A	1.5KE51CA	43.60	48.50	53.60	1	70.1	21.7	5
1.5KE56A	1.5KE56CA	47.80	53.20	58.80	1	77.0	19.7	5
1.5KE62A	1.5KE62CA	53.00	58.90	65.10	1	85.0	17.9	5
1.5KE68A	1.5KE68CA	58.10	64.60	71.40	1	92.0	16.5	5
1.5KE75A	1.5KE75CA	64.10	71.30	78.80	1	103.0	14.8	5
1.5KE82A	1.5KE82CA	70.10	77.90	86.10	1	113.0	13.5	5
1.5KE91A	1.5KE91CA	77.80	86.50	95.50	1	125.0	12.2	5
1.5KE100A	1.5KE100CA	85.50	95.00	105.00	1	137.0	11.1	5
1.5KE110A	1.5KE110CA	94.00	105.00	116.00	1	152.0	10.0	5
1.5KE120A	1.5KE120CA	102.00	114.00	126.00	1	165.0	9.2	5
1.5KE130A	1.5KE130CA	111.00	124.00	137.00	1	179.0	8.5	5
1.5KE150A	1.5KE150CA	128.00	143.00	158.00	1	207.0	7.3	5
1.5KE160A	1.5KE160CA	136.00	152.00	168.00	1	219.0	6.9	5
1.5KE170A	1.5KE170CA	145.00	162.00	179.00	1	234.0	6.5	5
1.5KE180A	1.5KE180CA	154.00	171.00	189.00	1	246.0	6.2	5
1.5KE200A	1.5KE200CA	171.00	190.00	210.00	1	274.0	5.5	5
1.5KE220A	1.5KE220CA	185.00	209.00	231.00	1	328.0	4.6	5
1.5KE250A	1.5KE250CA	214.00	237.00	263.00	1	344.0	4.4	5
1.5KE300A	1.5KE300CA	256.00	285.00	315.00	1	414.0	3.7	5
1.5KE350A	1.5KE350CA	300.00	332.00	368.00	1	482.0	3.2	5
1.5KE400A	1.5KE400CA	342.00	380.00	420.00	1	548.0	2.8	5
1.5KE440A	1.5KE440CA	376.00	418.00	462.00	1	600.0	2.5	5

For bidirectional type having V_{RWM} of 10 volts and less, the IR limit is double.**For parts without A, the V_{BR} is $\pm 10\%$**

1.5KE SERIES

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)



P6KE SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 6.8 to 440 Volts

600 Watts Peak Power 5.0 Watt Steady State

P6KE PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T	TEST CURRENT $I_T (mA)$	MAXIMUM CLAMPING VOLTAGE @ $I_{PP} V_C(V)$	PEAK PULSE CURRENT $I_{PP}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI-POLAR	BI-POLAR							
P6KE6.8A	P6KE6.8CA	5.80	6.45	7.14	10	10.5	58.1	1000
P6KE7.5A	P6KE7.5CA	6.40	7.13	7.88	10	11.3	54.0	500
P6KE8.2A	P6KE8.2CA	7.02	7.79	8.61	10	12.1	50.4	200
P6KE9.1A	P6KE9.1CA	7.78	8.65	9.55	1	13.4	45.5	50
P6KE10A	P6KE10CA	8.55	9.50	10.50	1	14.5	42.1	10
P6KE11A	P6KE11CA	9.40	10.50	11.60	1	15.6	39.1	5
P6KE12A	P6KE12CA	10.20	11.40	12.60	1	16.7	36.5	5
P6KE13A	P6KE13CA	11.10	12.40	13.70	1	18.2	33.5	5
P6KE15A	P6KE15CA	12.80	14.30	15.80	1	21.2	28.8	5
P6KE16A	P6KE16CA	13.60	15.20	16.80	1	22.5	27.1	5
P6KE18A	P6KE18CA	15.30	17.10	18.90	1	25.2	24.2	5
P6KE20A	P6KE20CA	17.10	19.00	21.00	1	27.7	22.0	5
P6KE22A	P6KE22CA	18.80	20.90	23.10	1	30.6	19.9	5
P6KE24A	P6KE24CA	20.50	22.80	25.20	1	33.2	18.4	5
P6KE27A	P6KE27CA	23.10	25.70	28.40	1	37.5	16.3	5
P6KE30A	P6KE30CA	25.60	28.50	31.50	1	41.4	14.7	5
P6KE33A	P6KE33CA	28.20	31.40	34.70	1	45.7	13.3	5
P6KE36A	P6KE36CA	30.80	34.20	37.80	1	49.9	12.2	5
P6KE39A	P6KE39CA	33.30	37.10	41.00	1	53.9	11.3	5
P6KE43A	P6KE43CA	36.80	40.90	45.20	1	59.3	10.3	5
P6KE47A	P6KE47CA	40.20	44.70	49.40	1	64.8	9.4	5
P6KE51A	P6KE51CA	43.60	48.50	53.60	1	70.1	8.7	5
P6KE56A	P6KE56CA	47.80	53.20	58.80	1	77.0	7.9	5
P6KE62A	P6KE62CA	53.00	58.90	65.10	1	85.0	7.2	5
P6KE68A	P6KE68CA	58.10	64.60	71.40	1	92.0	6.6	5
P6KE75A	P6KE75CA	64.10	71.30	78.80	1	103.0	5.9	5
P6KE82A	P6KE82CA	70.10	77.90	86.10	1	113.0	5.4	5
P6KE91A	P6KE91CA	77.80	86.50	95.50	1	125.0	4.9	5
P6KE100A	P6KE100CA	85.50	95.00	105.00	1	137.0	4.5	5
P6KE110A	P6KE110CA	94.00	105.00	116.00	1	152.0	4.0	5
P6KE120A	P6KE120CA	102.00	114.00	126.00	1	165.0	3.7	5
P6KE130A	P6KE130CA	111.00	124.00	137.00	1	179.0	3.4	5
P6KE150A	P6KE150CA	128.00	143.00	158.00	1	207.0	2.9	5
P6KE160A	P6KE160CA	136.00	152.00	168.00	1	219.0	2.8	5
P6KE170A	P6KE170CA	145.00	162.00	179.00	1	234.0	2.6	5
P6KE180A	P6KE180CA	154.00	171.00	189.00	1	246.0	2.5	5
P6KE200A	P6KE200CA	171.00	190.00	210.00	1	274.0	2.2	5
P6KE220A	P6KE220CA	185.00	209.00	231.00	1	328.0	1.9	5
P6KE250A	P6KE250CA	214.00	237.00	263.00	1	344.0	1.8	5
P6KE300A	P6KE300CA	256.00	285.00	315.00	1	414.0	1.5	5
P6KE350A	P6KE350CA	300.00	332.00	368.00	1	482.0	1.3	5
P6KE400A	P6KE400CA	342.00	380.00	420.00	1	548.0	1.1	5
P6KE440A	P6KE440CA	376.00	418.00	462.00	1	602.0	1.0	5

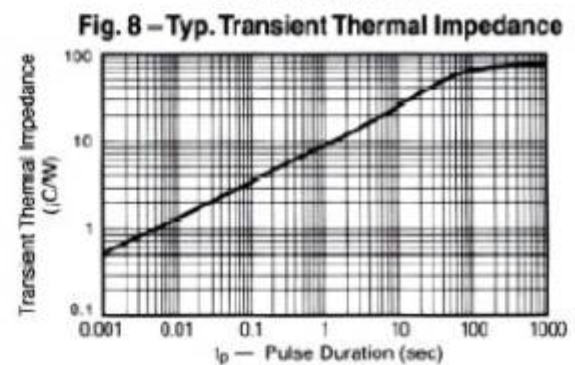
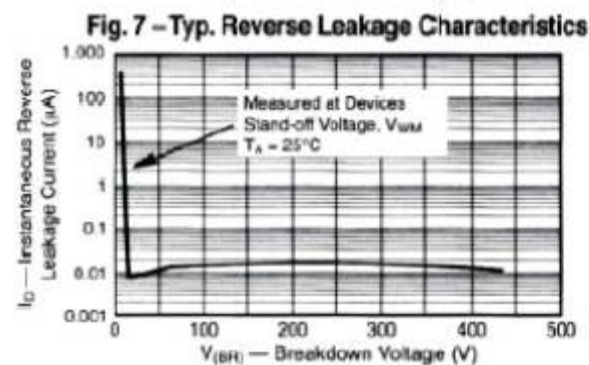
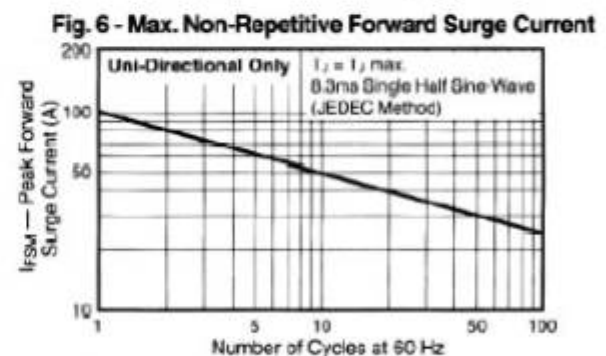
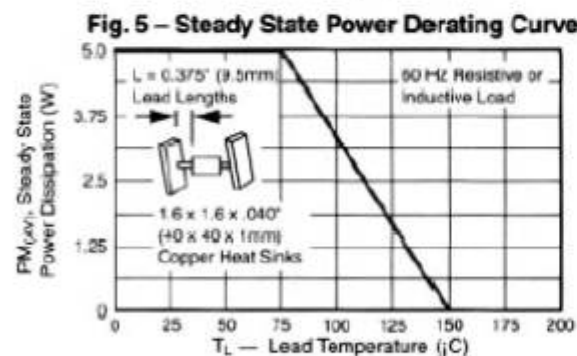
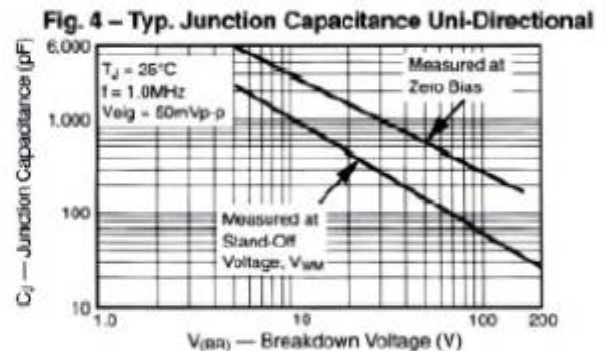
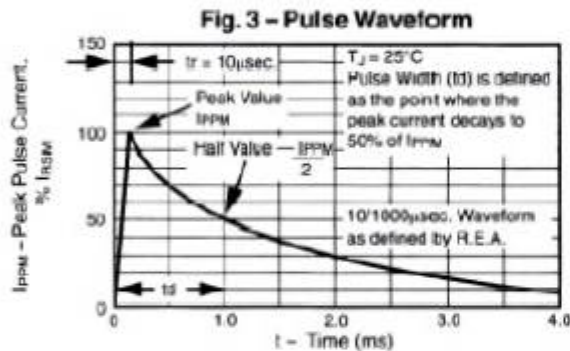
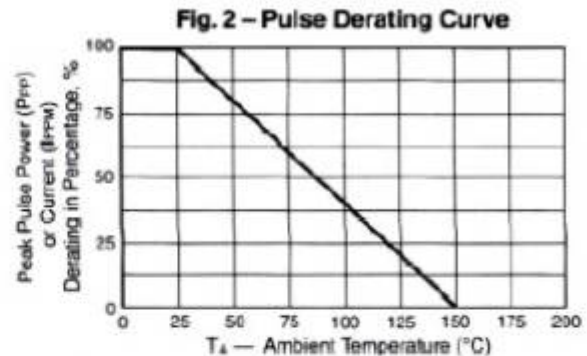
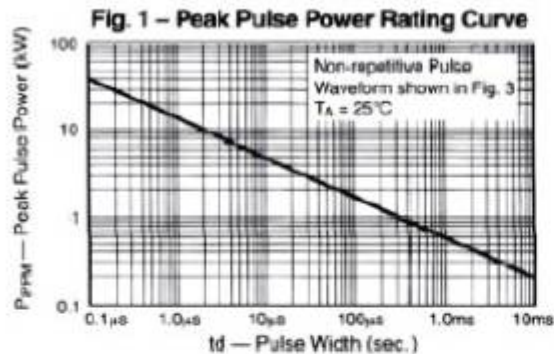
For bidirectional type having V_{RWM} of 10 volts and less, the I_R limit is double.

For parts without A, the V_{BR} is $\pm 10\%$

P6KE SERIES

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)



P4KE SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 6.8 to 170 Volts

400 Watts Peak 1.0 Watt Steady State

P4KE PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T	TEST CURRENT $I_T (mA)$	MAXIMUM CLAMPING VOLTAGE @ $I_{PP} V_C(V)$	PEAK PULSE CURRENT $I_{PP} (A)$	REVERSE LEAKAGE @ V_{RWM} $I_R (\mu A)$
UNI- POLAR	BI-POLAR							
P4KE6.8A	P4KE6.8C	5.80	6.45	7.14	10	10.5	39.00	1000
P4KE7.5A	P4KE7.5C	6.40	7.13	7.88	10	11.3	36.30	500
P4KE8.2A	P4KE8.2C	7.02	7.79	8.61	10	12.1	33.90	200
P4KE9.1A	P4KE9.1C	7.78	8.65	9.55	1	13.4	30.60	50
P4KE10A	P4KE10CA	8.55	9.50	10.50	1	14.5	28.30	10
P4KE11A	P4KE11CA	9.40	10.50	11.60	1	15.6	26.30	5
P4KE12A	P4KE12CA	10.20	11.40	12.60	1	16.7	24.60	5
P4KE13A	P4KE13CA	11.10	12.40	13.70	1	18.2	22.50	5
P4KE15A	P4KE15CA	12.80	14.30	15.80	1	21.2	19.30	5
P4KE16A	P4KE16CA	13.60	15.20	16.80	1	22.5	18.20	5
P4KE18A	P4KE18CA	15.30	17.10	18.90	1	25.5	16.10	5
P4KE20A	P4KE20CA	17.10	19.00	21.00	1	27.7	14.80	5
P4KE22A	P4KE22CA	18.80	20.90	23.10	1	30.6	13.40	5
P4KE24A	P4KE24CA	20.50	22.80	25.20	1	33.2	12.30	5
P4KE27A	P4KE27CA	23.10	25.70	28.40	1	37.5	10.90	5
P4KE30A	P4KE30CA	25.60	28.50	31.50	1	41.4	9.90	5
P4KE33A	P4KE33CA	28.20	31.40	34.70	1	45.7	9.00	5
P4KE36A	P4KE36CA	30.80	34.20	37.80	1	49.9	8.20	5
P4KE39A	P4KE39CA	33.30	37.10	41.00	1	53.9	7.60	5
P4KE43A	P4KE43CA	36.80	40.90	45.20	1	59.3	6.90	5
P4KE47A	P4KE47CA	40.20	44.70	49.40	1	64.8	6.30	5
P4KE51A	P4KE51CA	43.60	48.50	53.60	1	70.1	5.80	5
P4KE56A	P4KE56CA	47.80	53.20	58.80	1	77.0	5.30	5
P4KE62A	P4KE62CA	53.00	58.90	65.10	1	85.0	4.80	5
P4KE68A	P4KE68CA	58.10	64.60	71.40	1	92.0	4.50	5
P4KE75A	P4KE75CA	64.10	71.30	78.80	1	103.0	4.00	5
P4KE82A	P4KE82CA	70.10	77.90	86.10	1	113.0	3.60	5
P4KE91A	P4KE91CA	77.80	86.50	95.50	1	125.0	3.30	5
P4KE100A	P4KE100C	85.50	95.00	105.00	1	137.0	3.00	5
P4KE110A	P4KE110C	94.00	105.00	116.00	1	152.0	2.70	5
P4KE120A	P4KE120C	102.00	114.00	126.00	1	165.0	2.50	5
P4KE130A	P4KE130C	111.00	124.00	137.00	1	179.0	2.30	5
P4KE150A	P4KE150C	128.00	143.00	158.00	1	207.0	2.00	5
P4KE160A	P4KE160C	136.00	152.00	168.00	1	219.0	1.90	5
P4KE170A	P4KE170C	145.00	162.00	179.00	1	234.0	1.80	5
P4KE180A	P4KE180C	154.00	171.00	189.00	1	246.0	1.70	5
P4KE200A	P4KE200C	171.00	190.00	210.00	1	274.0	1.50	5
P4KE220A	P4KE220C	185.00	209.00	231.00	1	328.0	1.30	5
P4KE250A	P4KE250C	214.00	237.00	263.00	1	344.0	1.20	5
P4KE300A	P4KE300C	256.00	285.00	315.00	1	414.0	1.00	5
P4KE350A	P4KE350C	300.00	332.00	368.00	1	482.0	0.85	5
P4KE400A	P4KE400C	342.00	380.00	420.00	1	548.0	0.75	5
P4KE440A	P4KE440C	376.00	418.00	462.00	1	602.0	0.68	5

For bidirectional type having V_{RWM} of 10 volts and less, the IR limit is double.

For parts without A, the V_{BR} is $\pm 10\%$

P4KE SERIES

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves (TA=25°C unless otherwise noted.)

Fig. 1 – Peak Pulse Power Rating Curve

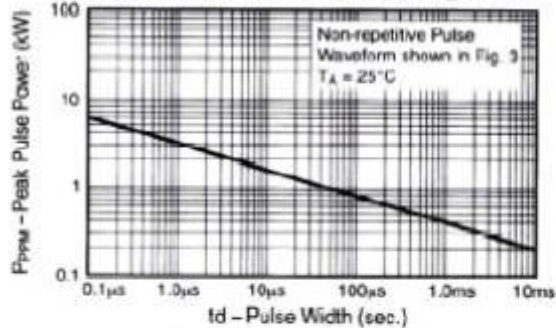


Fig. 2 – Pulse Derating Curve

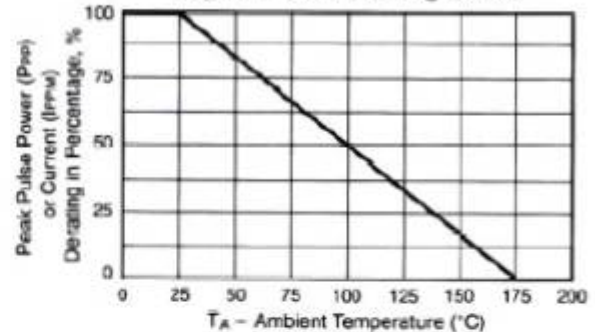


Fig. 3 – Pulse Waveform

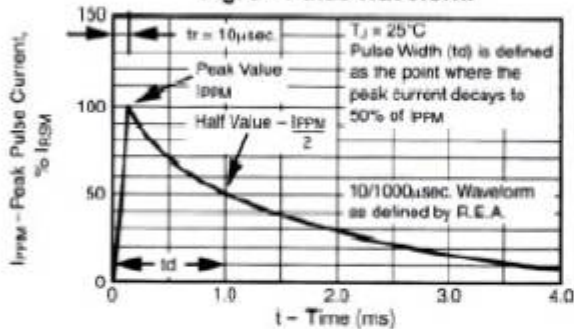


Fig. 4 – Typ. Junction Capacitance Uni-Directional

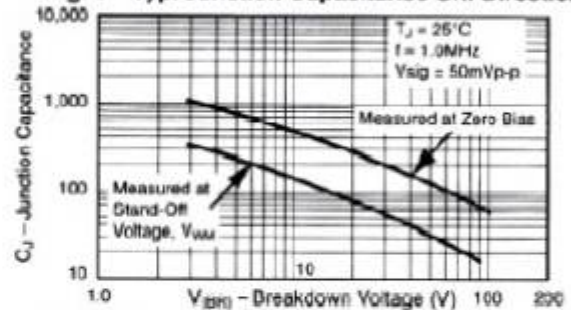


Fig. 5 – Steady State Power Derating Curve

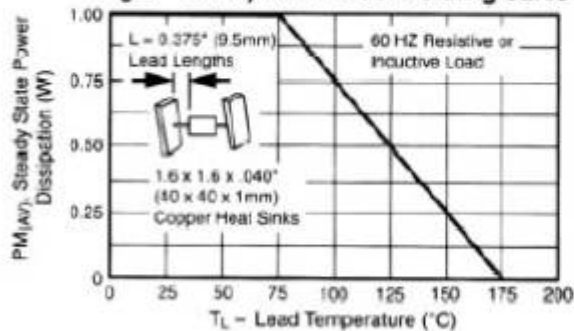


Fig. 6 - Max. Non-Repetitive Forward Surge Current Uni-Directional Only

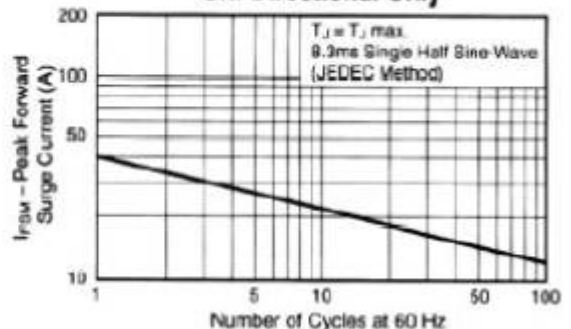


Fig. 7 – Typical Reverse Leakage Characteristics

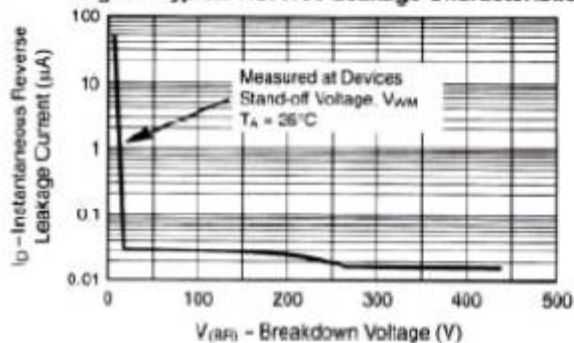
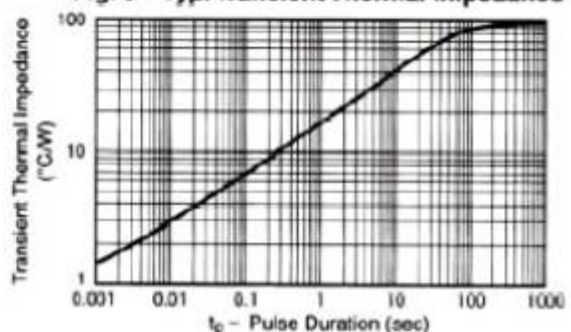


Fig. 8 – Typ. Transient Thermal Impedance



SA SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 5.8 TO 180 Volts

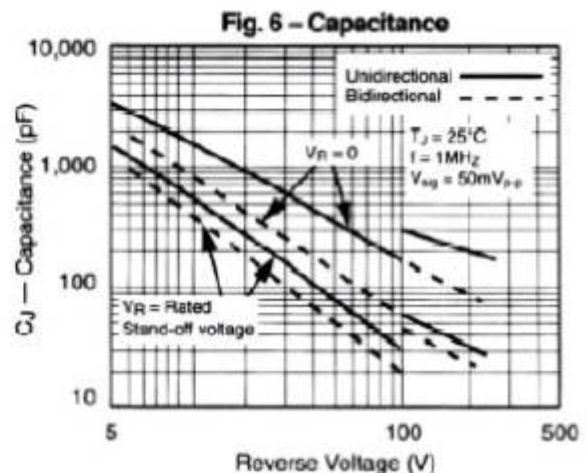
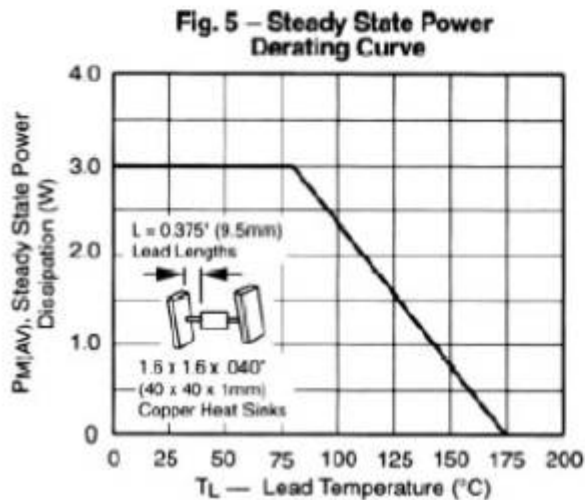
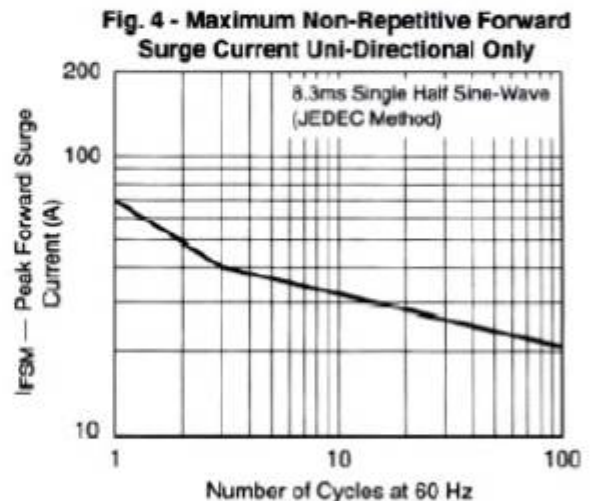
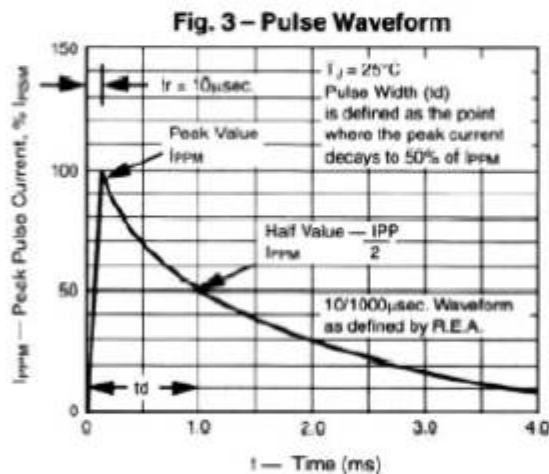
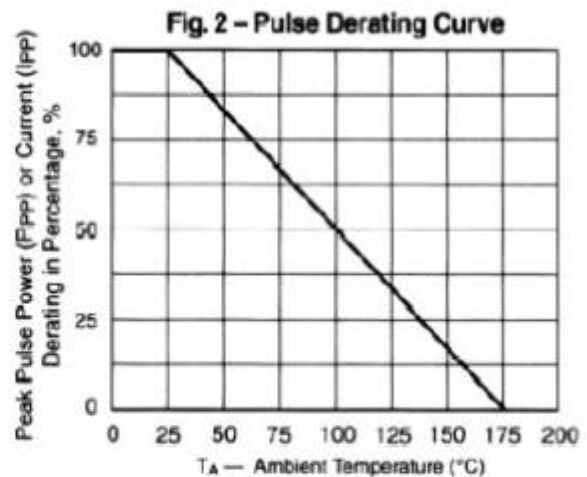
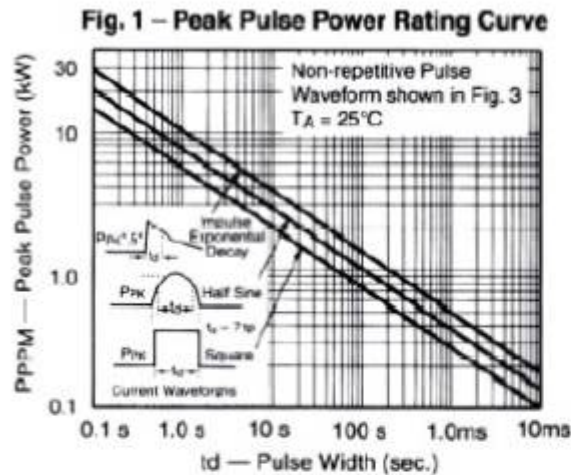
500 Watts Peak Pulse Power

SA PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN.@ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX.@ I_T	TEST CURRENT $I_T (mA)$	MAXIMUM CLAMPING VOLTAGE @ $I_{pp} V_C(V)$	PEAK PULSE CURRENT $I_{pp}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI- POLAR	BI-POLAR							
SA5.0A	SA5.0CA	5.0	6.40	7.00	10	9.2	55.4	600
SA6.0A	SA6.0CA	6.0	6.67	7.37	10	10.3	49.5	600
SA6.5A	SA6.5CA	6.5	7.22	7.98	10	11.2	45.5	400
SA7.0A	SA7.0CA	7.0	7.78	8.60	10	12.0	42.5	150
SA7.5A	SA7.5CA	7.5	8.33	9.21	1	12.9	39.5	50
SA8.0A	SA8.0CA	8.0	8.89	9.83	1	13.6	37.5	25
SA8.5A	SA8.5CA	8.5	9.44	10.40	1	14.4	35.4	10
SA9.0A	SA9.0CA	9.0	10.00	11.10	1	15.4	33.1	5
SA10A	SA10CA	10.0	11.10	12.30	1	17.0	30.0	3
SA11A	SA11CA	11.0	12.20	13.50	1	18.2	28.0	3
SA12A	SA12CA	12.0	13.30	14.70	1	19.9	25.6	3
SA13A	SA13CA	13.0	14.40	15.90	1	21.5	23.7	3
SA14A	SA14CA	14.0	15.60	17.20	1	23.2	22.0	3
SA15A	SA15CA	15.0	16.70	18.50	1	24.4	20.9	3
SA16A	SA16CA	16.0	17.80	19.70	1	26.0	19.6	3
SA17A	SA17CA	17.0	18.90	20.90	1	27.6	18.5	3
SA18A	SA18CA	18.0	20.00	22.10	1	29.2	17.5	3
SA20A	SA20CA	20.0	22.20	24.50	1	32.4	15.7	3
SA22A	SA22CA	22.0	24.40	26.90	1	35.5	14.4	3
SA24A	SA24CA	24.0	26.70	29.50	1	38.9	13.1	3
SA26A	SA26CA	26.0	28.90	31.90	1	42.1	12.1	3
SA28A	SA28CA	28.0	31.10	34.40	1	45.4	11.2	3
SA30A	SA30CA	30.0	33.30	36.80	1	48.4	10.5	3
SA33A	SA33CA	33.0	36.70	40.60	1	53.3	9.6	3
SA36A	SA36CA	36.0	40.00	44.20	1	58.1	8.8	3
SA40A	SA40CA	40.0	44.40	49.10	1	64.5	7.9	3
SA43A	SA43CA	43.0	47.80	52.80	1	69.4	7.3	3
SA45A	SA45CA	45.0	50.00	55.30	1	72.7	7.0	3
SA48A	SA48CA	48.0	53.30	58.90	1	77.4	6.6	3
SA51A	SA51CA	51.0	56.70	62.70	1	82.4	6.2	3
SA54A	SA54CA	54.0	60.00	66.30	1	87.1	5.9	3
SA58A	SA58CA	58.0	64.40	71.20	1	93.6	5.4	3
SA60A	SA60CA	60.0	66.70	73.70	1	96.8	5.3	3
SA64A	SA64CA	64.0	71.10	78.60	1	103.0	5.0	3
SA70A	SA70CA	70.0	77.80	86.00	1	113.0	4.5	3
SA75A	SA75CA	75.0	83.30	92.10	1	121.0	4.2	3
SA78A	SA78CA	78.0	86.70	95.80	1	126.0	4.0	3
SA85A	SA85CA	85.0	94.40	104.00	1	137.0	3.7	3
SA90A	SA90CA	90.0	100.00	111.00	1	146.0	3.5	3
SA100A	SA100CA	100.0	111.00	123.00	1	162.0	3.1	3
SA110A	SA110CA	110.0	122.00	135.00	1	177.0	2.9	3
SA120A	SA120CA	120.0	133.00	147.00	1	193.0	2.6	3
SA130A	SA130CA	130.0	144.00	159.00	1	209.0	2.4	3
SA150A	SA150CA	150.0	167.00	185.00	1	243.0	2.1	3
SA160A	SA160CA	160.0	178.00	197.00	1	259.0	2.0	3
SA170A	SA170CA	170.0	189.00	209.00	1	275.0	1.9	3
SA180A	SA180CA	180.0	200.00	233.00	1	289.0	1.7	3

SA SERIES

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves (TA=25°C unless otherwise noted.)



3KP SERIES

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE - 5.0 TO 180 Volts

3000Watts Peak Pulse Power

3KP PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN.@ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX.@ I_T	TEST CURRENT $I_T(mA)$	MAXIMUM CLAMPING VOLTAGE @ $I_{PP} V_C(V)$	PEAK PULSE CURRENT $I_{PP}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI-POLAR	BI-POLAR							
3KP5.0A	3KP5.0CA	5.0	6.40	7.00	50	9.2	326.1	5000
3KP6.0A	3KP6.0CA	6.0	6.67	7.37	50	10.3	291.3	5000
3KP6.5A	3KP6.5CA	6.5	7.22	7.98	50	11.2	267.9	2000
3KP7.0A	3KP7.0CA	7.0	7.78	8.60	50	12.0	250.0	1000
3KP7.5A	3KP7.5CA	7.5	8.33	9.21	5	12.9	232.6	250
3KP8.0A	3KP8.0CA	8.0	8.89	9.83	5	13.6	220.6	150
3KP8.5A	3KP8.5CA	8.5	9.44	10.40	5	14.4	208.3	50
3KP9.0A	3KP9.0CA	9.0	10.00	11.10	5	15.4	194.8	20
3KP10A	3KP10CA	10.0	11.10	12.30	5	17.0	176.5	15
3KP11A	3KP11CA	11.0	12.20	13.50	5	18.2	164.8	10
3KP12A	3KP12CA	12.0	13.30	14.70	5	19.9	150.8	10
3KP13A	3KP13CA	13.0	14.40	15.90	5	21.5	139.5	10
3KP14A	3KP14CA	14.0	15.60	17.20	5	23.2	129.3	10
3KP15A	3KP15CA	15.0	16.70	18.50	5	24.4	123.0	10
3KP16A	3KP16CA	16.0	17.80	19.70	5	26.0	115.4	10
3KP17A	3KP17CA	17.0	18.90	20.90	5	27.6	108.7	10
3KP18A	3KP18CA	18.0	20.00	22.10	5	29.2	102.7	10
3KP20A	3KP20CA	20.0	22.20	24.50	5	32.4	92.6	10
3KP22A	3KP22CA	22.0	24.40	26.90	5	35.5	84.5	10
3KP24A	3KP24CA	24.0	26.70	29.50	5	38.9	77.1	10
3KP26A	3KP26CA	26.0	28.90	31.90	5	42.1	71.3	10
3KP28A	3KP28CA	28.0	31.10	34.40	5	45.4	66.1	10
3KP30A	3KP30CA	30.0	33.30	36.80	5	48.4	62.0	10
3KP33A	3KP33CA	33.0	36.70	40.60	5	53.3	56.3	10
3KP36A	3KP36CA	36.0	40.00	44.20	5	58.1	51.6	10
3KP40A	3KP40CA	40.0	44.40	49.10	5	64.5	46.5	10
3KP43A	3KP43CA	43.0	47.80	52.80	5	69.4	43.2	10
3KP45A	3KP45CA	45.0	50.00	55.30	5	72.7	41.3	10
3KP48A	3KP48CA	48.0	53.30	58.90	5	77.4	38.8	10
3KP51A	3KP51CA	51.0	56.70	62.70	5	82.4	36.4	10
3KP54A	3KP54CA	54.0	60.00	66.30	5	87.1	34.4	10
3KP58A	3KP58CA	58.0	64.40	71.20	5	93.6	32.1	10
3KP60A	3KP60CA	60.0	66.70	73.70	5	96.8	31.0	10
3KP64A	3KP64CA	64.0	71.10	78.60	5	103.0	29.1	10
3KP70A	3KP70CA	70.0	77.80	86.00	5	113.0	26.5	10
3KP75A	3KP75CA	75.0	83.30	92.10	5	121.0	24.8	10
3KP78A	3KP78CA	78.0	86.70	95.80	5	126.0	23.8	10
3KP85A	3KP85CA	85.0	94.40	104.00	5	137.0	21.9	10
3KP90A	3KP90CA	90.0	100.00	111.00	5	146.0	20.5	10
3KP100A	3KP100CA	100.0	111.00	123.00	5	162.0	18.5	10
3KP110A	3KP110CA	110.0	122.00	135.00	5	177.0	16.9	10
3KP120A	3KP120CA	120.0	133.00	147.00	5	193.0	15.5	10
3KP130A	3KP130CA	130.0	144.00	159.00	5	209.0	14.4	10
3KP150A	3KP150CA	150.0	167.00	185.00	5	243.0	12.3	10
3KP160A	3KP160CA	160.0	178.00	197.00	5	259.0	11.6	10
3KP170A	3KP170CA	170.0	189.00	209.00	5	275.0	10.9	10
3KP180A	3KP180CA	180.0	200.00	233.00	5	289.0	10.4	10

For bidirectional type having V_{RWM} of 10 volts and less, the I_R limit is double.

3KP SERIES

RATINGS AND CHARACTERISTIC CURVES 3KP SERIES

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Peak Pulse Power Rating Curve

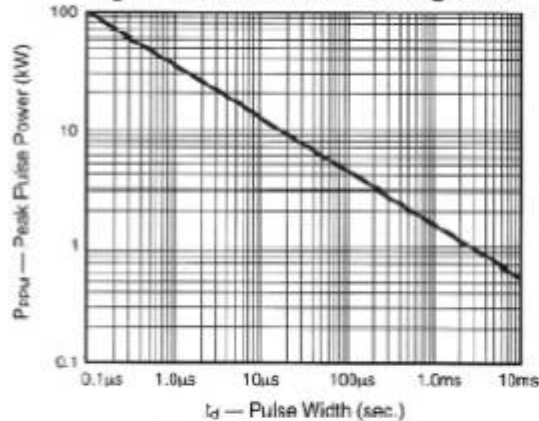


Fig. 2 – Pulse Derating Curve

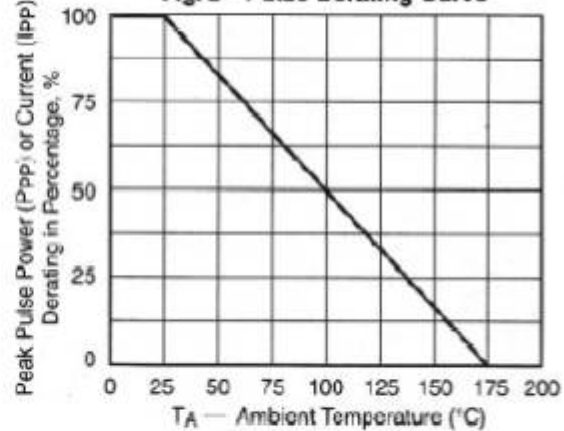


Fig. 3 – Pulse Waveform

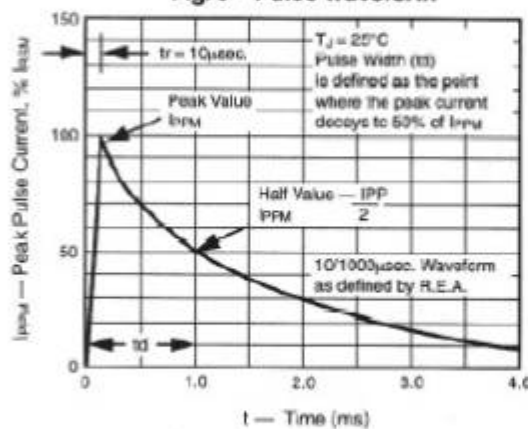


Fig. 4 – Typical Junction Capacitance

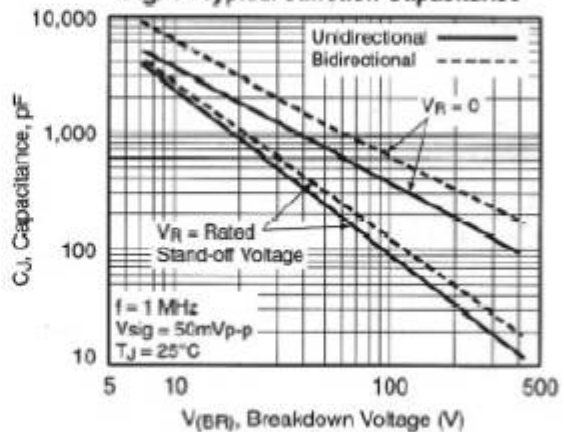


Fig. 5 – Steady State Power Derating Curve

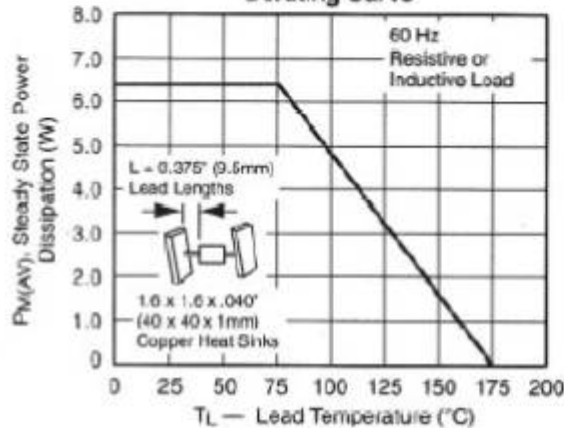
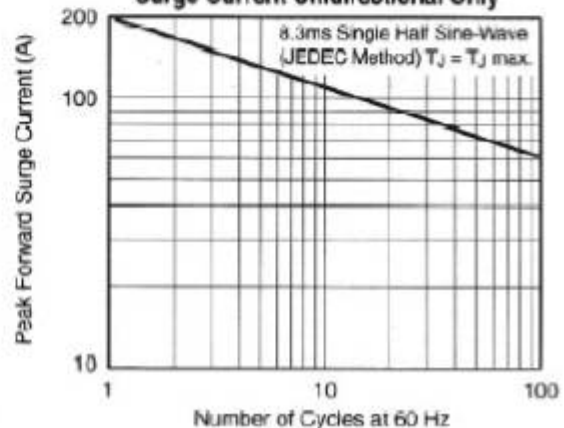


Fig. 6 – Maximum Non-repetitive Peak Forward Surge Current Unidirectional Only



5KP SERIES**GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR****VOLTAGE - 5.0 TO 180 Volts****5000Watts Peak Pulse Power**

5KP PART NUMBER		REVERSE STAND- OFF VOLTAGE $V_{RWM}(V)$	BREAKDOWN VOLTAGE $V_{BR}(V)$ MIN. @ I_T	BREAKDOWN VOLTAGE $V_{BR}(V)$ MAX. @ I_T	TEST CURRENT $I_T(mA)$	MAXIMUM CLAMPING VOLTAGE @ $I_{PP} V_C(V)$	PEAK PULSE CURRENT $I_{PP}(A)$	REVERSE LEAKAGE @ V_{RWM} $I_R(\mu A)$
UNI-POLAR	BI-POLAR							
5KP5.0A	5KP5.0CA	5.0	6.40	7.00	50	9.2	544.0	5000
5KP6.0A	5KP6.0CA	6.0	6.67	7.37	50	10.3	486.0	5000
5KP6.5A	5KP6.5CA	6.5	7.22	7.98	50	11.2	447.0	2000
5KP7.0A	5KP7.0CA	7.0	7.78	8.60	50	12.0	417.0	1000
5KP7.5A	5KP7.5CA	7.5	8.33	9.21	5	12.9	388.0	250
5KP8.0A	5KP8.0CA	8.0	8.89	9.83	5	13.6	368.0	150
5KP8.5A	5KP8.5CA	8.5	9.44	10.40	5	14.4	348.0	50
5KP9.0A	5KP9.0CA	9.0	10.00	11.10	5	15.4	325.0	20
5KP10A	5KP10CA	10.0	11.10	12.30	5	17.0	295.0	15
5KP11A	5KP11CA	11.0	12.20	13.50	5	18.2	275.0	10
5KP12A	5KP12CA	12.0	13.30	14.70	5	19.9	252.0	10
5KP13A	5KP13CA	13.0	14.40	15.90	5	21.5	233.0	10
5KP14A	5KP14CA	14.0	15.60	17.20	5	23.2	216.0	10
5KP15A	5KP15CA	15.0	16.70	18.50	5	24.4	205.0	10
5KP16A	5KP16CA	16.0	17.80	19.70	5	26.0	193.0	10
5KP17A	5KP17CA	17.0	18.90	20.90	5	27.6	181.0	10
5KP18A	5KP18CA	18.0	20.00	22.10	5	29.2	172.0	10
5KP20A	5KP20CA	20.0	22.20	24.50	5	32.4	154.0	10
5KP22A	5KP22CA	22.0	24.00	26.90	5	35.5	141.0	10
5KP24A	5KP24CA	24.0	26.70	29.50	5	38.9	129.0	10
5KP26A	5KP26CA	26.0	28.90	31.90	5	42.1	119.0	10
5KP28A	5KP28CA	28.0	31.10	34.40	5	45.4	110.0	10
5KP30A	5KP30CA	30.0	33.30	36.80	5	48.4	103.0	10
5KP33A	5KP33CA	33.0	36.70	40.60	5	53.3	93.9	10
5KP36A	5KP36CA	36.0	40.00	44.20	5	58.1	86.1	10
5KP40A	5KP40CA	40.0	44.40	49.10	5	64.5	77.6	10
5KP43A	5KP43CA	43.0	47.80	52.80	5	69.4	72.1	10
5KP45A	5KP45CA	45.0	50.00	55.30	5	72.7	68.8	10
5KP48A	5KP48CA	48.0	53.30	58.90	5	77.4	64.7	10
5KP51A	5KP51CA	51.0	56.70	62.70	5	82.4	60.7	10
5KP54A	5KP54CA	54.0	60.00	66.30	5	87.1	57.5	10
5KP58A	5KP58CA	58.0	64.40	71.20	5	93.6	53.5	10
5KP60A	5KP60CA	60.0	66.70	73.70	5	96.8	51.7	10
5KP64A	5KP64CA	64.0	71.10	78.60	5	103.0	48.6	10
5KP70A	5KP70CA	70.0	77.80	86.00	5	113.0	44.3	10
5KP75A	5KP75CA	75.0	83.30	92.10	5	121.0	41.4	10
5KP78A	5KP78CA	78.0	86.70	95.80	5	126.0	39.7	10
5KP85A	5KP85CA	85.0	94.40	104.00	5	137.0	36.5	10
5KP90A	5KP90CA	90.0	100.00	111.00	5	146.0	34.3	10
5KP100A	5KP100CA	100.0	110.00	123.00	5	162.0	30.9	10
5KP110A	5KP110CA	110.0	122.00	135.00	5	177.0	28.3	10
5KP120A	5KP120CA	120.0	133.00	147.00	5	193.0	26.0	10
5KP130A	5KP130CA	130.0	144.00	159.00	5	209.0	24.0	10
5KP150A	5KP150CA	150.0	167.00	185.00	5	243.0	20.6	10
5KP160A	5KP160CA	160.0	178.00	197.00	5	259.0	19.3	10
5KP170A	5KP170CA	170.0	189.00	209.00	5	275.0	18.2	10
5KP180A	5KP180CA	180.0	200.00	233.00	5	289.0	17.3	10

For bidirectional type having V_{RWM} of 10 volts and less, the IR limit is double.For parts without A, the V_{BR} is +10%

5KP SERIES

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Peak Pulse Power Rating Curve

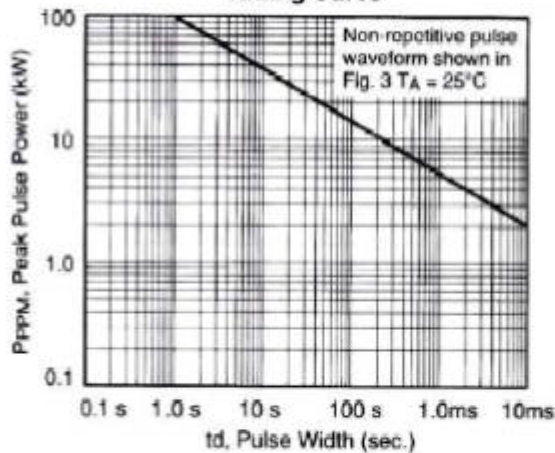


Fig. 2 - Pulse Derating Curve

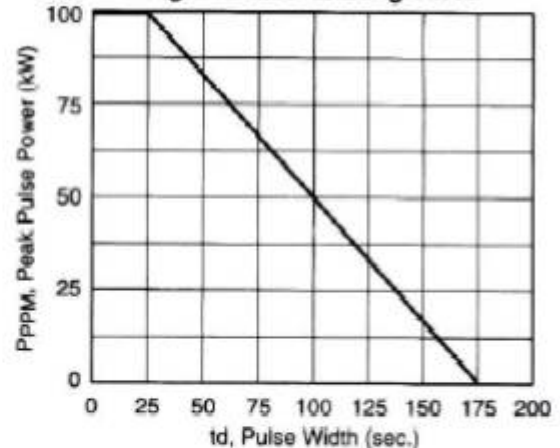


Fig. 3 - Pulse Waveform

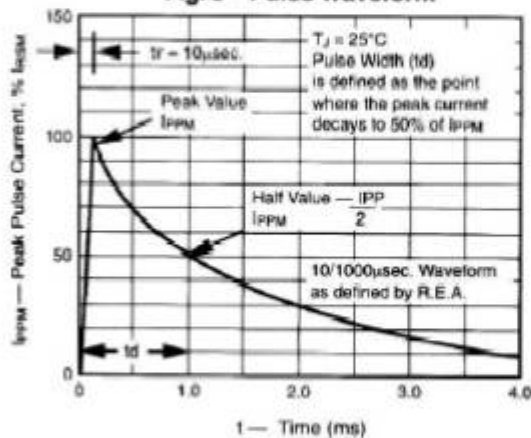


Fig. 4 - Typical Junction Capacitance

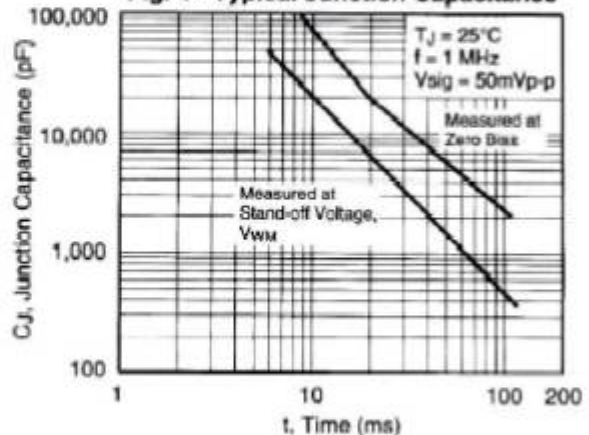


Fig. 5 - Steady State Power Derating Curve

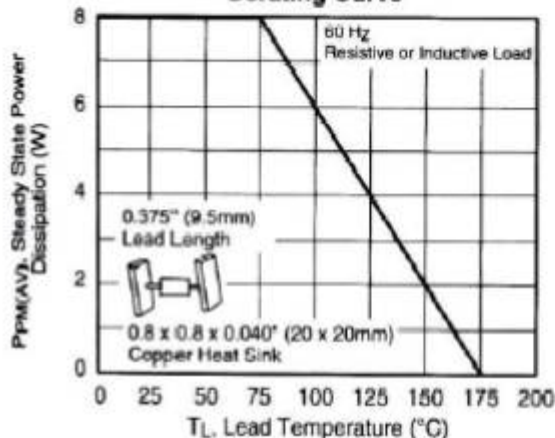


Fig. 6 - Maximum Non-repetitive Forward Surge Current

