Elektronische Bauelemente

P4KE SERIES

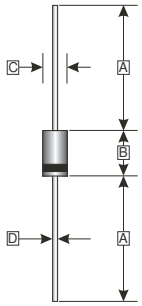
Voltage 6.8V ~ 440V
400 Peak Power / 1.0W Steady State
400W Peak Power TVS

A suffix of "-C" specifies halogen & RoHS compliant

FEATURES

- Constructed with Glass Passivated Die
- 400W peak pulse power Dissipation
- Excellent clamping capability
- Uni and Bidirectional unit
- Very fast response time
- Component in accordance to RoHS 2002/95/EC

DO - 41



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	4.10	5.21
C	2.00	2.72
D	0.70	0.90

MECHANICAL DATA

- Case: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.318 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Maximum Ratings @ T_A = 25℃)

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Peak Power Disipation with a 10/1000μs waveform	P_{PK}	Minimum 400	W
Power Dissipation on infinite heatsink at TL=75℃	P_D	1	W
Peak Forward Surge Current, 8.3ms single half sine-wave undirectional only (Note1)	I_{FSM}	40	A
Operating and Storage Temperature Range	T_J, T_{STG}	150, -55 to +150	℃

Notes:
1. Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

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TYPICAL CHARACTERISTICS

Fig. 1 - Pulse Derating Curve

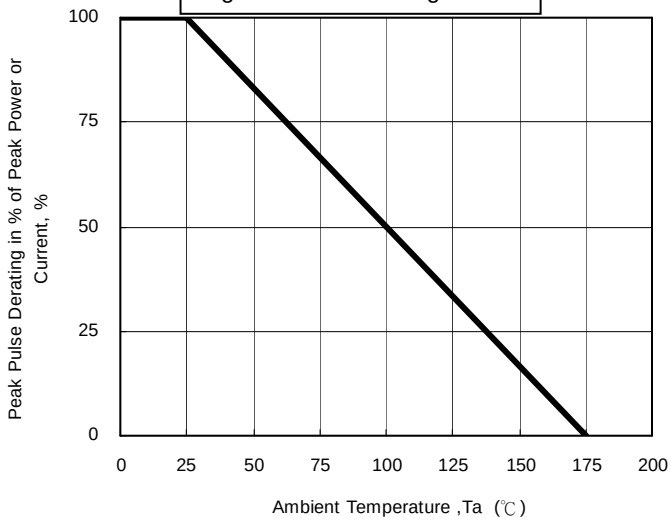


Fig. 2 - Maximum Non-Repetitive

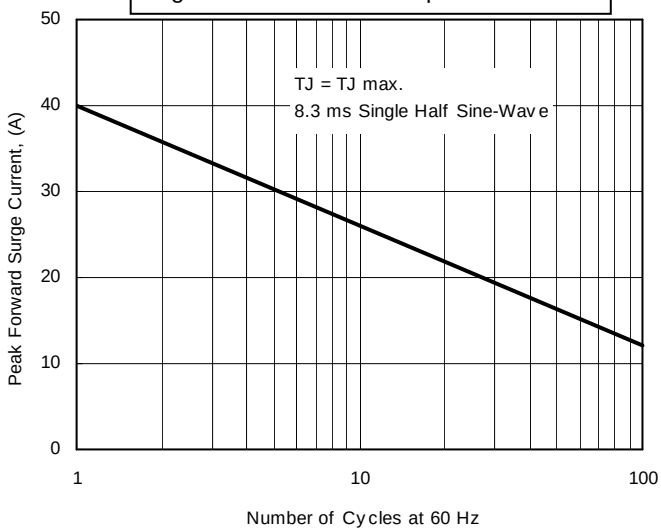


Fig. 3 - Steady State Power Derating

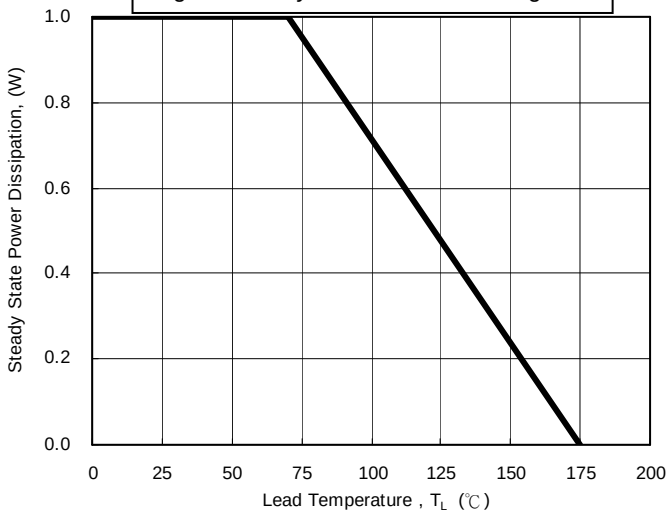


Fig. 4 - Peak Pulse Power Rating

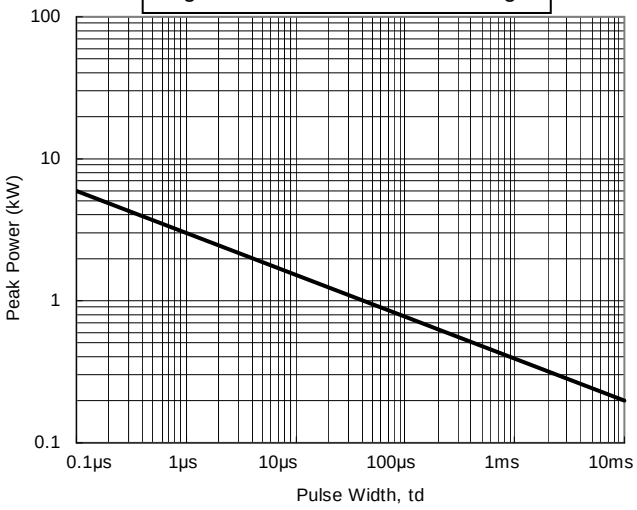
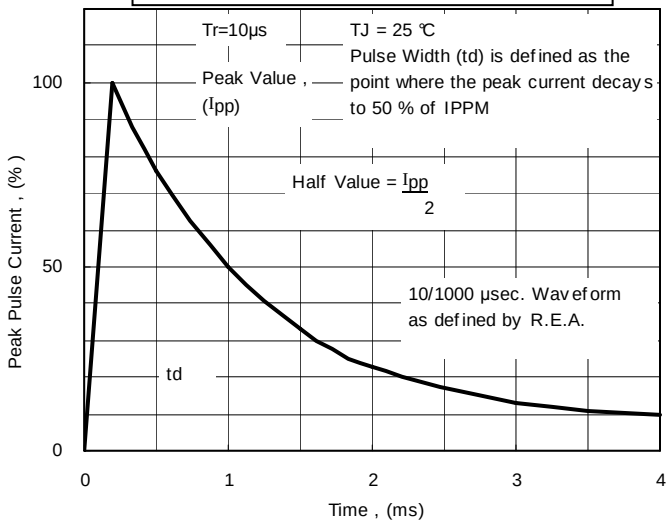


Fig. 5 - Pulse Pulse Waveform



Elektronische Bauelemente

P4KE SERIES

Voltage 6.8V ~ 440V
400 Peak Power / 1.0W Steady State
400W Peak Power TVS

ELECTRICAL CHARACTERISTIC(T_A =25℃ unless otherwise specified)

PART NUMBER		REVERSE STANDOFF VOLTAGE	BREAKDOWN VOLTAGE MIN@I_T	BREAKDOWN VOLTAGE MAX@I_T	TEST CURRENT	MAX CLAMPING VOLTAGE V_C@I_{PP}	PEAK PULSE CURRENT	REVERSE LEAKAGE I_R@V_{RRM}
DIRECTIONAL		V_{RRM}	V_{BR}	V_{BR}	I_T	V_C	I_{PP}	I_R
UNI	BI	V	V	V	mA	V	A	uA
P4KE6.8A	P4KE6.8CA	5.80	6.46	7.14	10.0	10.5	38.10	1000
P4KE7.5A	P4KE7.5CA	6.40	7.13	7.88	10.0	11.3	35.40	500
P4KE8.2A	P4KE8.2CA	7.02	7.79	8.61	10.0	12.1	33.10	200
P4KE9.1A	P4KE9.1CA	7.78	8.65	9.56	1.0	13.4	29.90	50
P4KE10A	P4KE10CA	8.55	9.50	10.50	1.0	14.5	27.60	10
P4KE11A	P4KE11CA	9.40	10.45	11.55	1.0	15.6	25.60	5
P4KE12A	P4KE12CA	10.20	11.40	12.60	1.0	16.7	24.00	5
P4KE13A	P4KE13CA	11.10	12.35	13.65	1.0	18.2	22.00	5
P4KE15A	P4KE15CA	12.80	14.25	15.75	1.0	21.2	18.90	5
P4KE16A	P4KE16CA	13.60	15.20	16.80	1.0	22.5	17.80	5
P4KE18A	P4KE18CA	15.30	17.10	18.90	1.0	25.2	15.90	5
P4KE20A	P4KE20CA	17.10	19.00	21.00	1.0	27.7	14.40	5
P4KE22A	P4KE22CA	18.80	20.90	23.10	1.0	30.6	13.10	5
P4KE24A	P4KE24CA	20.50	22.80	25.20	1.0	33.2	12.00	5
P4KE27A	P4KE27CA	23.10	25.65	28.35	1.0	37.5	10.70	5
P4KE30A	P4KE30CA	25.60	28.50	31.50	1.0	41.4	9.66	5
P4KE33A	P4KE33CA	28.20	31.35	34.65	1.0	45.7	8.75	5
P4KE36A	P4KE36CA	30.80	34.20	37.80	1.0	49.9	8.02	5
P4KE39A	P4KE39CA	33.30	37.05	40.95	1.0	53.9	7.42	5
P4KE43A	P4KE43CA	36.80	40.85	45.15	1.0	59.3	6.75	5
P4KE47A	P4KE47CA	40.20	44.65	49.35	1.0	64.8	6.17	5
P4KE51A	P4KE51CA	43.60	48.45	53.55	1.0	70.1	5.71	5
P4KE56A	P4KE56CA	47.80	53.20	58.80	1.0	77.0	5.19	5
P4KE62A	P4KE62CA	53.00	58.90	65.10	1.0	85.0	4.71	5
P4KE68A	P4KE68CA	58.10	64.60	71.40	1.0	92.0	4.35	5
P4KE75A	P4KE75CA	64.10	71.25	78.75	1.0	103.0	3.88	5
P4KE82A	P4KE82CA	70.10	77.90	86.10	1.0	113.0	3.54	5
P4KE91A	P4KE91CA	77.80	86.45	95.50	1.0	125.0	3.20	5
P4KE100A	P4KE100CA	85.50	95.00	105.00	1.0	137.0	2.92	5
P4KE110A	P4KE110CA	94.00	104.50	115.50	1.0	152.0	2.63	5
P4KE120A	P4KE120CA	102.00	114.00	126.00	1.0	165.0	2.42	5
P4KE130A	P4KE130CA	111.00	123.50	136.50	1.0	179.0	2.23	5
P4KE150A	P4KE150CA	128.00	142.50	157.50	1.0	207.0	1.93	5
P4KE160A	P4KE160CA	136.00	152.00	168.00	1.0	219.0	1.83	5
P4KE170A	P4KE170CA	145.00	161.50	178.50	1.0	234.0	1.71	5
P4KE180A	P4KE180CA	154.00	171.00	189.00	1.0	246.0	1.63	5
P4KE200A	P4KE200CA	171.00	190.00	210.00	1.0	274.0	1.46	5
P4KE220A	P4KE220CA	185.00	209.00	231.00	1.0	328.0	1.22	5
P4KE250A	P4KE250CA	214	237.5	262.5	1.0	344	1.16	5
P4KE300A	P4KE300CA	256	285	315	1.0	414	0.97	5
P4KE350A	P4KE350CA	299	332.5	367.5	1.0	482	0.83	5
P4KE380A	P4KE380CA	325	361	399	1.0	524	0.76	5
P4KE400A	P4KE400CA	342	380	420	1.0	552	0.72	5
P4KE440A	P4KE440CA	376	418	462	1.0	607		5

Notes:
1. Suffix “A” denotes 5% tolerance device.
2. For bi-Directional devices having VR of 10volt and under, the IR limit is double