Elektronische Bauelemente

P6KE SERIES

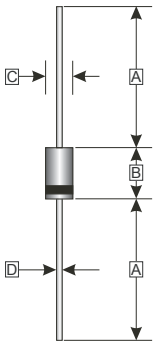
Voltage 6.8V ~ 480V
600 Peak Power / 5.0W Steady State
600W Peak Power TVS

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

FEATURES

- Constructed with Glass Passivated Die
- 600W peak pulse power Dissipation
- Excellent clamping capability
- Uni and Bidirectional unit
- Very fast response time
- Component in accordance to RoHS 2002/95/EC

DO - 15



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.62
C	2.60	3.60
D	-	0.90

MECHANICAL DATA

- Case: DO-15
- 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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Maximum Ratings @ T_A = 25°C)

Characteristic	Symbol	Rating	Unit
Peak Power Disipation with a 10/1000μs waveform	P_{PK}	Minimum 600	W
Power Dissipation on infinite heatsink at TL=75°C	P_D	5	W
Peak Forward Surge Current, 8.3ms single half sine-wave undirectional only (Note1)	I_{FSM}	100	A
Operating and Storage Temperature Range	T_J, T_{STG}	150, -55 to +150	°C

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

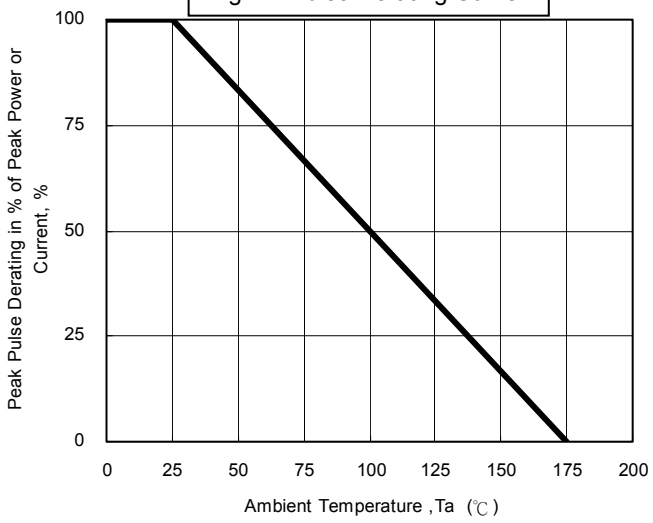


Fig. 2 - Maximum Non-Repetitive

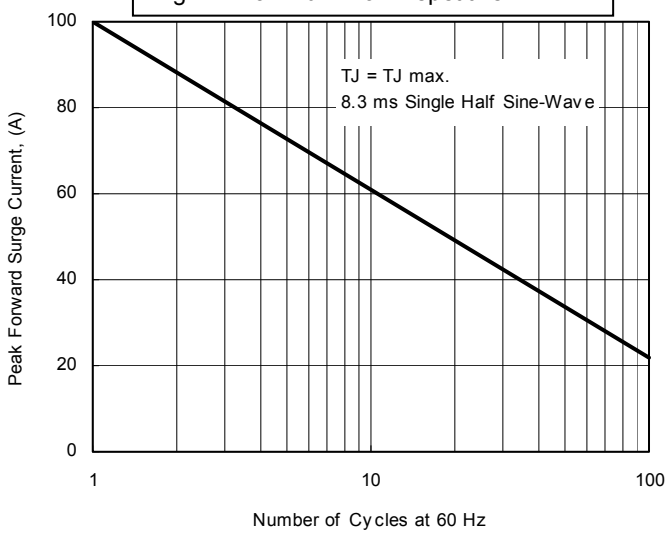


Fig. 3 - Steady State Power Derating

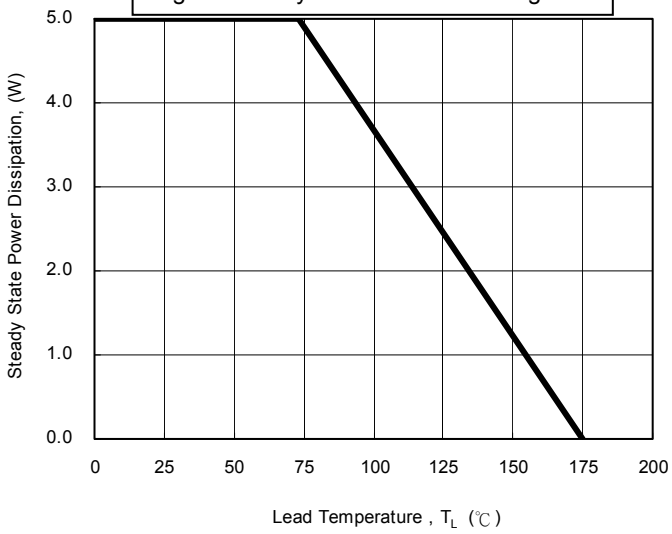


Fig. 4 - Peak Pulse Power Rating

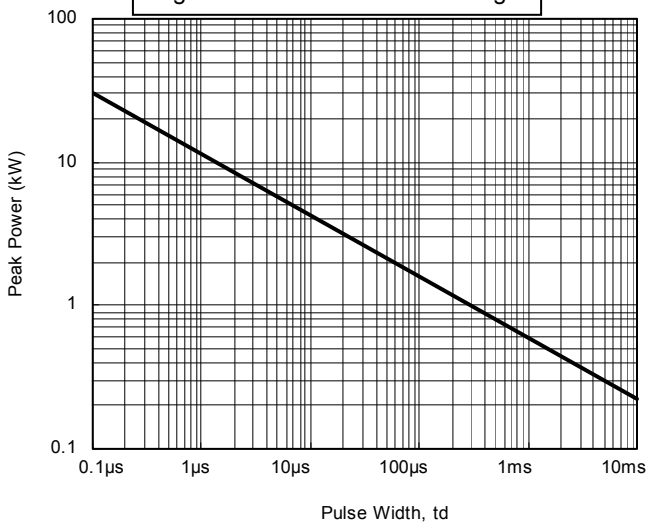
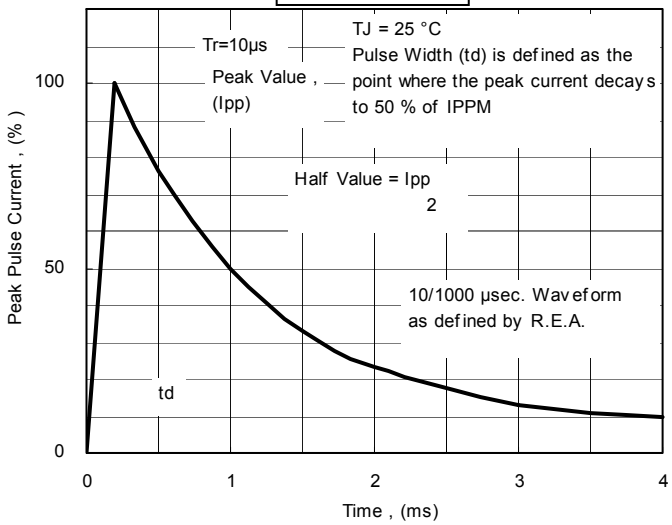


Fig. 5 - Pulse



Elektronische Bauelemente

P6KE SERIES

Voltage 6.8V ~ 480V
600 Peak Power / 5.0W Steady State
600W Peak Power TVS

ELECTRICAL CHARACTERISTIC(T_A =25°C unless otherwise specified)

PART NUMBER		REVERSE STANDOFF VOLTAGE	BREAKDOWN VOLTAGE @ 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}		I_T	V_C	I_{PP}	I_R
UNI	BI	V	V (MIN.)	V (MAX.)	mA	V	A	uA
P6KE6.8A	P6KE6.8CA	5.8	6.46	7.14	10	10.5	58.1	1000
P6KE7.5A	P6KE7.5CA	6.4	7.13	7.88	10	11.3	54	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	9.5	10.5	1	14.5	42.1	10
P6KE11A	P6KE11CA	9.40	10.5	11.6	1	15.6	39.1	5
P6KE12A	P6KE12CA	10.2	11.40	12.6	1	16.7	36.5	5
P6KE13A	P6KE13CA	11.1	12.4	13.7	1	18.2	33.5	5
P6KE15A	P6KE15CA	12.8	14.3	15.8	1	21.2	28.8	5
P6KE16A	P6KE16CA	13.6	15.2	16.8	1	22.5	27.1	5
P6KE18A	P6KE18CA	15.3	17.1	18.9	1	25.2	24.2	5
P6KE20A	P6KE20CA	17.1	19	21	1	27.7	22	5
P6KE22A	P6KE22CA	18.8	20.9	23.1	1	30.6	19.9	5
P6KE24A	P6KE24CA	20.5	22.8	25.2	1	33.2	18.4	5
P6KE27A	P6KE27CA	23.1	25.7	28.4	1	37.5	16.3	5
P6KE30A	P6KE30CA	25.6	28.5	31.5	1	41.4	14.7	5
P6KE33A	P6KE33CA	28.2	31.4	34.7	1	45.7	13.3	5
P6KE36A	P6KE36CA	30.8	34.2	37.8	1	49.9	12.2	5
P6KE39A	P6KE39CA	33.3	37.1	41	1	53.9	11.3	5
P6KE43A	P6KE43CA	36.8	40.9	45.2	1	59.3	10.3	5
P6KE47A	P6KE47CA	40.2	44.7	49.4	1	64.8	9.4	5
P6KE51A	P6KE51CA	43.6	48.5	53.6	1	70.1	8.7	5
P6KE56A	P6KE56CA	47.8	53.2	58.8	1	77	7.9	5
P6KE62A	P6KE62CA	53	58.9	65.1	1	85	7.2	5
P6KE68A	P6KE68CA	58.1	64.6	71.4	1	92	6.6	5
P6KE75A	P6KE75CA	64.1	71.3	78.8	1	103	5.9	5
P6KE82A	P6KE82CA	70.1	77.9	86.1	1	113	5.4	5
P6KE91A	P6KE91CA	77.8	86.5	95.5	1	125	4.9	5
P6KE100A	P6KE100CA	85.5	95	105	1	137	4.5	5
P6KE110A	P6KE110CA	94	105	116	1	152	4	5
P6KE120A	P6KE120CA	102	114	126	1	165	3.7	5
P6KE130A	P6KE130CA	111	124	137	1	179	3.4	5
P6KE150A	P6KE150CA	128	143	158	1	207	2.9	5
P6KE160A	P6KE160CA	136	152	168	1	219	2.8	5
P6KE170A	P6KE170CA	145	162	179	1	234	2.6	5
P6KE180A	P6KE180CA	154	171	189	1	246	2.5	5
P6KE200A	P6KE200CA	171	190	210	1	274	2.2	5
P6KE220A	P6KE220CA	185	209	231	1	328	1.9	5
P6KE250A	P6KE250CA	214	237	263	1	344	1.8	5
P6KE300A	P6KE300CA	256	285	315	1	414	1.5	5
P6KE350A	P6KE350CA	300	332	368	1	482	1.3	5
P6KE400A	P6KE400CA	342	380	420	1	548	1.1	5
P6KE440A	P6KE440CA	376	418	462	1	602	1	5
P6KE480A	P6KE480CA	408	456	504	1	658	0.9	5

Notes:1

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