



# P6KE10AS ~ P6KE250AS Series

## Surface Mount Transient Voltage Suppressor

**Voltage** 10~250 V **Power** 600 W

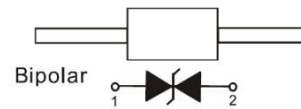
### Features

- For surface mounted applications in order to optimize board space.
- Low inductance
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Case: DO-15 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.014 ounces, 0.4 grams

DO-15



## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation(tp = 10 / 1000 us)	P <sub>PP</sub> <sup>(1) (2)</sup>	600	W
Peak Pulse Current on tp = 10 / 1000 us waveform <sup>(Fig.2)</sup>	I <sub>PPM</sub> <sup>(1)</sup>	See table 1	A
Power Dissipation on Infinite Heat Sink at T <sub>L</sub> = 75 °C	P <sub>D</sub>	5	W
ESD IEC61000-4-2(Air)	V <sub>ESD</sub>	±15	kV
ESD IEC61000-4-2(Contact)		±8	
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub> <sup>(3)</sup>	65	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



## P6KE10AS ~ P6KE250AS Series

### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Part Number	V <sub>RWM</sub>	V <sub>BR</sub>			I <sub>R</sub>	V <sub>C@I<sub>PP</sub></sub>		Marking Code
		Min.	Max.	I <sub>T</sub>	@V <sub>RWM</sub>	V	A	
	V	V	V	mA	uA			
600W Transient Voltage Suppressor								
P6KE10AS	8.55	9.5	10.5	1	10	14.5	41	P6KE10AS
P6KE11AS	9.4	10.5	11.6	1	5	15.6	38	P6KE11AS
P6KE12AS	10.2	11.4	12.6	1	5	16.7	36	P6KE12AS
P6KE13AS	11.1	12.4	13.7	1	1	18.2	33	P6KE13AS
P6KE15AS	12.8	14.3	15.8	1	1	21.2	28	P6KE15AS
P6KE16AS	13.6	15.2	16.8	1	1	22.5	27	P6KE16AS
P6KE18AS	15.3	17.1	18.9	1	1	25.2	24	P6KE18AS
P6KE20AS	17.1	19	21	1	1	27.7	22	P6KE20AS
P6KE22AS	18.8	20.9	23.1	1	1	30.6	20	P6KE22AS
P6KE24AS	20.5	22.8	25.2	1	1	33.2	18	P6KE24AS
P6KE27AS	23.1	25.7	28.4	1	1	37.5	16	P6KE27AS
P6KE30AS	25.6	28.5	31.5	1	1	41.4	14.4	P6KE30AS
P6KE33AS	28.2	31.4	34.7	1	1	45.7	13.2	P6KE33AS
P6KE36AS	30.8	34.2	37.8	1	1	49.9	12	P6KE36AS
P6KE39AS	33.3	37.1	41	1	1	53.9	11.2	P6KE39AS
P6KE43AS	36.8	40.9	45.2	1	1	59.3	10.1	P6KE43AS
P6KE47AS	40.2	44.7	49.4	1	1	64.8	9.3	P6KE47AS
P6KE51AS	43.6	48.5	53.6	1	1	70.1	8.6	P6KE51AS
P6KE56AS	47.8	53.2	58.8	1	1	77	7.8	P6KE56AS
P6KE62AS	53	58.9	65.1	1	1	85	7.1	P6KE62AS
P6KE68AS	58.1	64.6	71.4	1	1	92	6.5	P6KE68AS
P6KE75AS	64.1	71.3	78.8	1	1	103	5.8	P6KE75AS
P6KE82AS	70.1	77.9	86.1	1	1	113	5.3	P6KE82AS
P6KE91AS	77.8	86.5	95.5	1	1	125	4.8	P6KE91AS
P6KE100AS	85.5	95	105	1	1	137	4.4	P6KE100AS
P6KE110AS	94	105	116	1	1	152	4	P6KE110AS
P6KE120AS	102	114	126	1	1	165	3.6	P6KE120AS
P6KE130AS	111	124	137	1	1	179	3.3	P6KE130AS
P6KE150AS	128	143	158	1	1	207	2.9	P6KE150AS
P6KE160AS	136	152	168	1	1	219	2.7	P6KE160AS



## P6KE10AS ~ P6KE250AS Series

### Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Part Number	VRWM	VBR			IR	VC@IPP		Marking Code
		Min.	Max.	IT	@VRWM	V	A	
	V	V	V	mA	uA			
600W Transient Voltage Suppressor								
P6KE170AS	145	162	179	1	1	234	2.6	P6KE170AS
P6KE180AS	154	171	189	1	1	246	2.4	P6KE180AS
P6KE200AS	171	190	210	1	1	274	2.2	P6KE200AS
P6KE220AS	185	209	231	1	1	328	1.9	P6KE220AS
P6KE250AS	214	237	263	1	1	344	1.8	P6KE250AS

**Note:**

1. Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig.2
2. Mounted on 100cm<sup>2</sup> copper pads to each terminal
3. Mounted on a FR4 PCB, single-sided copper, mini pad



# P6KE10AS ~ P6KE250AS Series

## TYPICAL CHARACTERISTIC CURVES

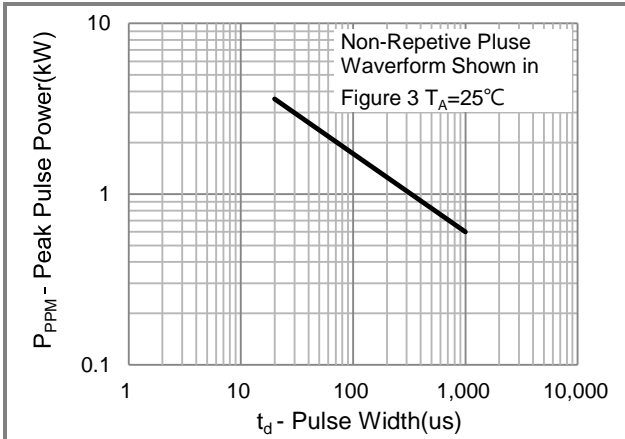


Fig.1 Pulse Power Rating Curve

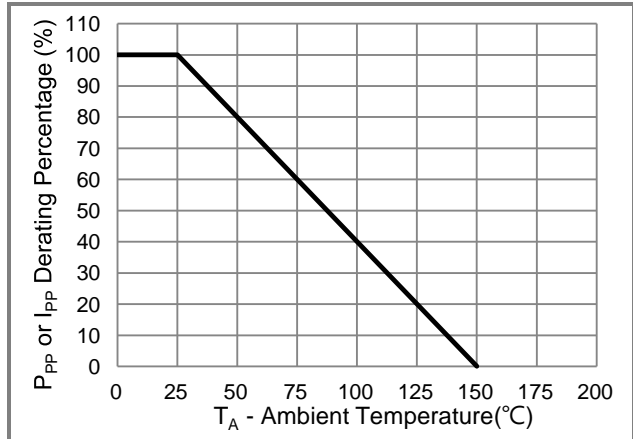


Fig.2 Derating Curve

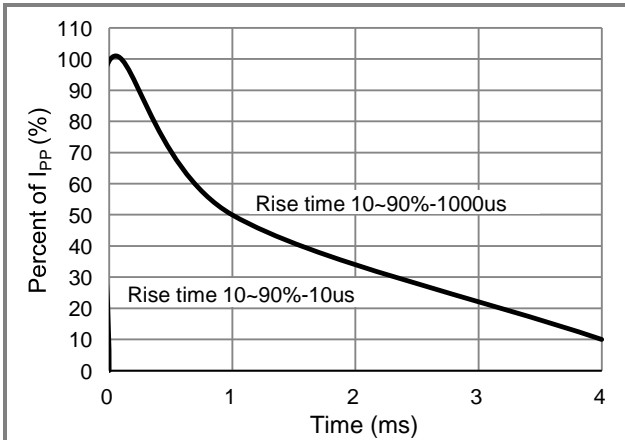


Fig.3 10/1000us Pulse Waveform

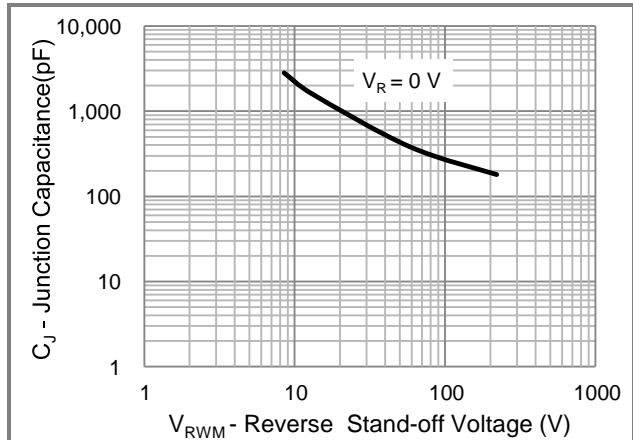


Fig.4 Typical Capacitance

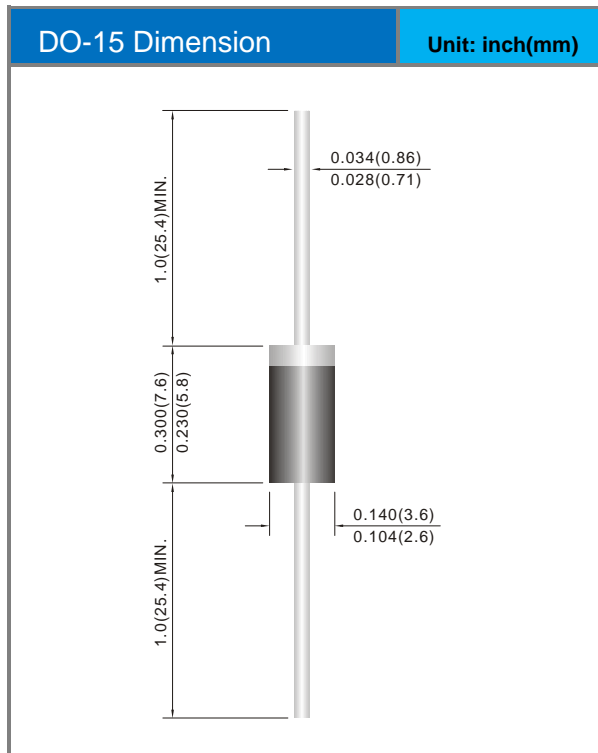


## P6KE10AS ~ P6KE250AS Series

### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
P6KExxxAS_AY_00001	DO-15	3K pcs / Ammo	See Table	Halogen free

### Packaging Information





## P6KE10AS ~ P6KE250AS Series

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)