



8000W 8KP30A Silicon Transient Voltage Suppressors Diode For Computer System

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: 8KP30A
- Minimum Order Quantity: 250PCS
- Price: Negotiable
- Delivery Time: 1-3weeks



Product Specification

- Description: TVS Diodes
- Shape: R6/P600
- Material: Silicon
- Vrwm: 30V
- Vbr@It (Min.): 33.3V
- Vbr@It (Max.): 36.8V
- It: 5mA
- Vc@lpp: 48.4V
- lpp: 165A
- Ir@Vrwm: 5μA
- Weight: 20g
- Highlight: 8000W Transient Voltage Suppressors Diode,
Silicon Transient Voltage Suppressors Diode

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Product Description

8000W 8KP30A series R6/P600 Transient Voltage Suppressors Diodes for comTVS puter system

DATASHEET: [8KP Series_v2309.1.pdf](#)

Description:

TVS tubes are widely used for the protection of semiconductors and sensitive devices, usually for diode protection. They are characterised by their fast response time (PS level), small size, high transient pulse suppression power and low clamping voltage.

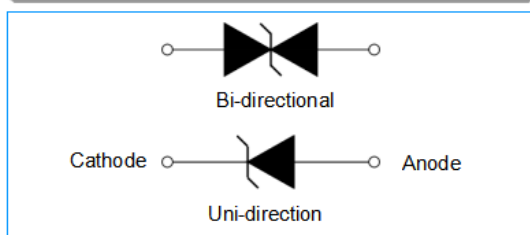
Part Number		Reverse Stand-Off Voltage V_{RWM} (V)	Breakdown Voltage V_{BR} (V) @ I_T		Test Current I_T (mA)	Maximum Clamping Voltage V_C (V) @ I_{PP}	Maximum Peak Pulse Current I_{PP} (A)	Maximum Reverse Leakage I_R (μA) @ V_{RWM}
Uni	Bi		MIN	MAX				
8KP18A	8KP18CA	18	20.0	22.1	5	29.2	273.9	5
8KP20A	8KP20CA	20	22.2	24.5	5	32.4	246.9	5
8KP22A	8KP22CA	22	24.4	26.9	5	35.5	225	5
8KP24A	8KP24CA	24	26.7	29.5	5	38.9	206	5
8KP30A	8KP30CA	30	33.3	36.8	5	48.4	165	5
8KP33A	8KP33CA	33	36.7	40.6	5	53.3	150	5
8KP36A	8KP36CA	36	40.0	44.2	5	58.1	148	5
8KP40A	8KP40CA	40	44.4	49.1	5	64.5	124	5
8KP43A	8KP43CA	43	47.8	52.8	5	69.4	115	5
8KP45A	8KP45CA	45	50.0	55.3	5	72.7	110	5
8KP48A	8KP48CA	48	53.3	58.9	5	77.4	103.4	5
8KP51A	8KP51CA	51	56.7	62.7	5	82.4	97.1	5

Applications:

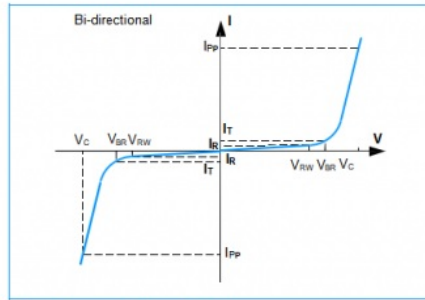
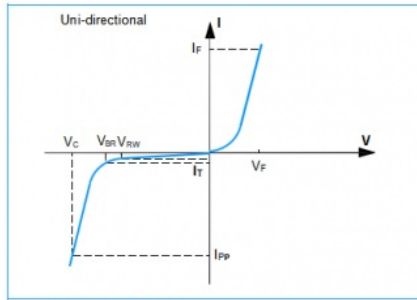
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Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation with a 10/1000 μs waveform (Fig.1)(Note 1), (Note 2)	P_{PPM}	8000	Watts
Peak Pulse Current with a 10/1000 μs waveform.(Note1, Fig.3)	I_{PP}	See Next Table	Amps
Power Dissipation on Infinite Heat Sink at $T_L=75^\circ C$	$P_{M(AV)}$	8.0	Watt
Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Note 3)	I_{FSM}	500	Amps
Operating junction and Storage Temperature Range.	T_J, T_{STG}	-55 to +150	$^\circ C$

Functional Diagram



I-V Curve Characteristics



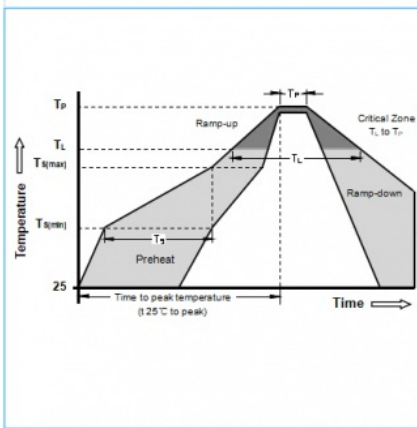
Physical Specifications

Weight	0.007 ounce, 0.21 gram
Case	JEDEC DO-214AB Molded Plastic over glass passivated junction
Polarity	Color band denotes cathode except Bipolar
Terminal	Matte Tin-plated leads, Solderable per JESD22-B102D

Environmental Specifications

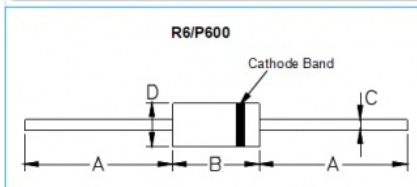
Temperature Cycle	JESD22-A104
Pressure Cooker	JESD22-A102
High Temp. Storage	JESD22-A103
HTRB	JESD22-A108
Thermal Shock	JESD22-A106

Soldering Parameters



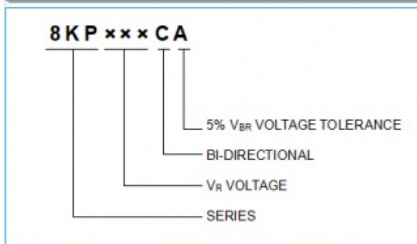
Reflow Condition		Lead-free assembly
Pre Heat	- Temperature Min ($T_{S(min)}$)	150°C
	- Temperature Max ($T_{S(max)}$)	200°C
	- Time (min to max) (T_S)	60 - 180 Seconds
Average ramp up rate (Liquidus Temp T_L) to peak		$3^\circ\text{C}/\text{second max}$
$T_{S(max)}$ to T_L - Ramp-up Rate		$3^\circ\text{C}/\text{second max}$
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Time (min to max) (T_L)	60 - 150 Seconds
Peak Temperature (T_P)		$260 \pm 0/-5^\circ\text{C}$
Time within 5°C of actual peak Temperature (t_p)		20 - 40 Seconds
Ramp-down Rate		$6^\circ\text{C}/\text{second max}$
Time 25°C to peak Temperature (T_P)		8 minutes Max
Do not exceed		280°C

Dimensions

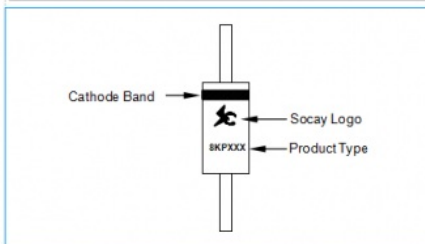


Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	1.000	-	25.40	-
B	0.340	0.360	8.64	9.14
C	0.048	0.052	1.22	1.32
D	0.340	0.360	8.64	9.14

Part Numbering



Part Marking



Packaging			
Part Number	Component Package	Quantity	Packaging Option
8KP Series	R6/P600	250 PCS	Box

Packaging Dimensions Unit: Inches (Millimeters)	

FAQ

Q1. Can I have a sample order ?

A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

Q2. What about the lead time?

A: Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than

Q3. Do you have any MOQ ?

A: MOQ depend on the type of product, 1pc for sample checking is available

Q4. How do you ship the goods and how long does it take to arrive?

A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional.

Q5. How to proceed an order ?

A: Firstly let us know your requirements or application.

Secondly We quote according to your requirements or our suggestions.

Thirdly customer confirms the samples and places deposit for formal order.

Fourthly We arrange the production.

Q6: Do you offer guarantee for the products?

A: Yes, we offer 2-5 years warranty to our prod

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