Socay 8KP100CA Bi-Directional TVS Axial Lead Transient Voltage **Suppressors**

Basic Information

. Place of Origin: Shenzhen, Guangdong, China

. Brand Name: Socay

UL,REACH,RoHS,ISO · Certification:

8KP100CA Model Number: Minimum Order Quantity: 250PCS • Price: Negotiable . Delivery Time: 5-8 work days



Product Specification

• Product Name: TVS Diodes Package Type: R6/P600 Reverse Stand-Off Voltage: 100.0V

• Breakdown Voltage@It Min:111.0V

• Breakdown Voltage@It 123.0V

Max:

Tast Current: 5mA

• Maximum Clamping Voltage162.0V @lpp:

 Maximum Peak Pulse 50.0A Current:

Maximum Reverse Leakage5µA

 Storage Temperature -55 To +150

Range:

Product Description

Socay 8KP100CA Bi-Directional TVS Axial Lead Transient Voltage Suppressors

DATASHEET: 8KP Series_v2309.1.pdf

8KP100CA TVS Diode Profile:

The 8KP series is designed to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

8KP100CA TVS Diode Application:

TVS devices are suitable for protecting I/O interfaces, Vcc buses, and other vulnerable circuits used in Telecom, Computer, Industrial, and Consumer electronic applications.

8KP100CA TVS Diode Feature:

Low leakage
Uni and Bidirectional unit
Excellent clamping capability
Fast response time
RoHS compliant

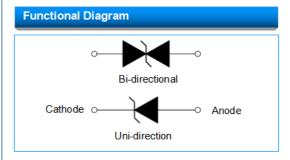
Glass passivated chip junction in P600 Package

8000W Peak power capability at 10 × 1000µs waveform Repetition rate (duty cycle):0.01%

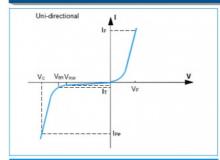
Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation with a 10/1000μs waveform (Fig.1)(Note 1), (Note 2)	P _{PPM}	8000	Watts
Peak Pulse Current with a 10/1000µs waveform.(Note1,Fig.3)	I _{PP}	See Next Table	Amps
Power Dissipation on Infinite Heat Sink at T _L =75°C	P _{M(AV)}	8.0	Watt
Peak Forward 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	°C

Electrical Characteristic

Part Numb	er	Reverse Stand-Off Voltage V _{RWM} (V)	Breakde Voltage @I _T	own V _{BR} (V)	l	m Clampin g Voltage Vo (V)	m Book	Maximum Reverse Leakage Ι _R (μΑ) @V _{RWM}
Uni	Bi		MIN	MAX				
8KP51A	8KP51CA	51	56.7	62.7	5	82.4	97.1	5
8KP58A	8KP58CA	58	64.4	71.2	5	93.6	86.5	5
8KP60A	8KP60CA	60	66.7	73.7	5	96.8	83.7	5
8KP64A	8KP64CA	64	71.1	78.6	5	103.0	78.6	5
8KP70A	8KP70CA	70	77.8	86.0	5	113.0	71.7	5
8KP75A	8KP75CA	75	83.3	92.1	5	121.0	66.9	5
8KP78A	8KP78CA	78	86.7	95.8	5	126.0	64.3	5
8KP85A	8KP85CA	85	94.4	104.0	5	137.0	59.1	5
8KP90A	8KP90CA	90	100.0	111.0	5	146.0	55.5	5
8KP100A	8KP100CA	100	111.0	123.0	5	162.0	50.0	5

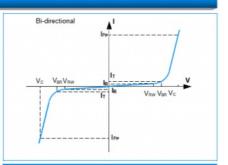


I-V Curve Characteristics





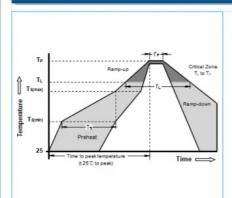
Weight	0.007 ounce, 0.21 gram		
Case	JEDEC DO-214AB Molded Plastic over glass passivated junction		
Polarity	Color band denotes cathode except Bipolar		
Terminal	Matte Tin-plated leads, Solderable per		



Environmental Specifications

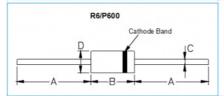
Temperature Cycle	JESD22-A104		
Pressure Cooker	JESD22-A102		
High Temp. Storage	JESD22-A103		
HTRB	JESD22-A108		
Thermal Shock	JESD22-A106		

Soldering Parameters



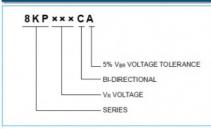
Reflow Co	ndition	Lead-free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	- Time (min to max) (T _s)	60 -180 Seconds	
Average rate to peak	amp up rate (Liquidus Temp T _L)	3℃/second max	
T _{S(max)} to T	L - Ramp-up Rate	3°C/second max	
Reflow	- Temperature (T _L) (Liquidus)	217°C	
	- Time (min to max) (T _L)	60 -150 Seconds	
Peak Temp	perature (T _P)	260 +0/-5℃	
Time with	20 -40 Secon		
Ramp-dow	p-down Rate 6°C/second r		
Time 25℃	to peak Temperature (T _P)	8 minutes Max	
Do not exc	eed	280°C	

Dimensions

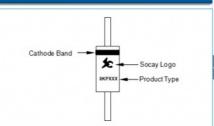


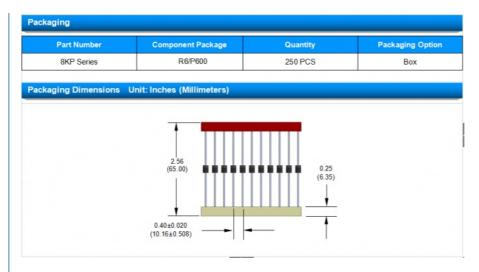
Bii	Inc	hes	Millimeters		
Dimensions	Min	Max	Min	Max	
Α	1.000	-	25.40	-	
В	0.340	0.360	8.64	9.14	
С	0.048	0.052	1.22	1.32	
D	0.340	0.360	8.64	9.14	

Part Numbering



Part Marking





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