

规格承认书

Specification for approval

产品名称： 53D561K压敏电阻

Product Type: 53D561K varistor

Shenzhen Shaoxin Electronics Co.Ltd

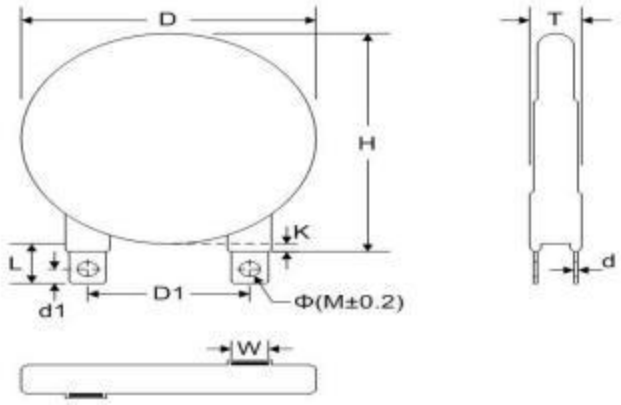
电话: +86-755-83239643 传真: +86-755-83238644

厂址: 深圳市龙岗区平湖街道上木古社区捷威工业城三期厂房A栋五楼

网址: <http://www.szshaoxin.com>

规格承认书

SPECIFICATION FOR APPROVAL

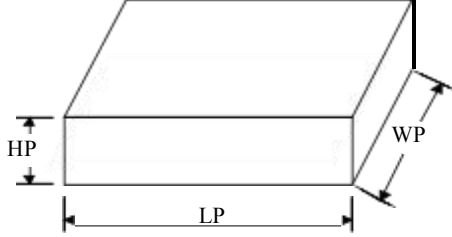
Rev1.0	SPECIFICATION		NO.				
PART NO.	53D561K		PAGE 1 OF 4				
			DATE: 2022 年 8月 22日				
UL		CUL		VDE		CQC	
1.OUTLINE							
1.1	APPEARANCE		WITHOUT ANY CRACK, MARKING SHOULD BE CLEAR				
1.2	DIMENSIONS		DIMENSIONS (mm)				
			H(max.)	78.2			
			L(min.)	14.5			
			D(max.)	60			
			D1(±1.0)	25.4			
			T(max.)	8.6			
			d(±0.25)	0.7			
			d1(±0.3)	3.6			
			K(max.)	3.2			
			W(±0.5)	9.7			
			ΦM(±0.2)	3.8			
			Epoxy Colour: Blue				
			2.ELETRICAL PARAMETER				
2.1	MAX ALLOWABLE VOLTAGE	AC: 350(V)		At 1mA DC			
		DC: 460(V)					
2.2	VARISTOR VOLTAGE	504-616(V)		V0. 1mA □ V1mA ■			
2.3	RATED WATTAGE	1.5(W)					
2.4	MAX CLAMPING VOLTAGE	IP: 500(A)		Test Current Waveform 8/20 μs			
		Vc: 925(V)					
2.5	WITHSTANDING SURGE CURRENT	1Time 70000A		Test Current Waveform 8/20 μs			
		2Time 50000A					
2.6	MAX ENERGY	1200(J)		Test Current Waveform 10/1000 μs			
2.7	TYPICAL CAPACITANCE	5500(pf)		@ 1KHz			
2.8	LEAKAGE CURRENT	≦ 50 (μA)		At 80% of Varistor Voltage			
2.9	NONLINEAR EXPONENT (α)	≧ 10		α =log I1 / I2 / log V1 / V2			
2.10	TEMPERATURE COEFFICENT OF VARISTOR VOLTAGE	≧ ± 0.05%/℃ max		Vc85℃-Vc25℃ / Vcat25℃ × 1 / 60 × 100(%℃)			
2.11	IMPULSE LIFE	≧ ± 10%(V1mA)		Test Current Waveform 8/20 μs			

规格承认书

SPECIFICATION FOR APPROVAL

Rev1.0	SPECIFICATION	NO.					
PART NO.	53D561K		PAGE: 2 OF 4				
UL		CUL		VDE		CQC	

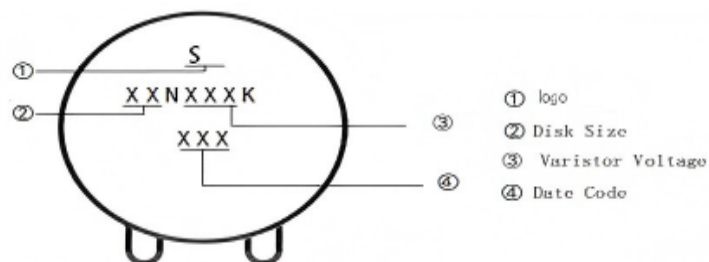
3.PACKING

3.1	Quantity	32PCS			
3.2	Packing Dimension		LP	245max	
			HP	65 max	
			WP	185max	
			Unit: mm		

4.MATERIAL LIST

4.1	Drawing	/					
4.2	Material Chart RoHs	Item	ComPosition	Manufacturer			
		Coating	Epoxy Resin	Made in China, and in line with the UL 94-V0 testing, meet the environmental requirements			
		Lead	CU /CPwire	Made in China, meet the environmental requirements			
		Electrode	Silver	Made in China, meet the environmental requirements			
		Disk	Zinc Oxide	Zip Over LLC			
		Solder	Sn:96.5%CU 0.5%Ag3.0%	Made in China, meet the environmental requirements			

5. MARKING CODE



规格承认书

SPECIFICATION FOR APPROVAL

Rev1.0	SPECIFICATION	NO.
PART NO.	53D561K	PAGE: 3 OF 4
UL	CUL	DATE : 2022 年 8 月 22 日
	VDE	CQC

6.MECHANICAL REQUIREMENTS

6.1	Tensile of Terminations	No Outstanding Damage	1.0Kgf; 10Sec.
6.2	Bending of Terminations	No Outstanding Damage	0.5Kgf; 90° ,3 Times
6.3	Vibration	No Outstanding Damage	Freq:10-55hz;Amp:0.75mm, 1Min .
6.4	Solderability	Min. 95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:265±5℃ Immersed Time: ≤5Sec.
6.5	Resistance of soldering heat	Δ V1 mA/ V1 mA ≅±5%	Solder Temp: 265±5℃ Immersed Time: 10± 1Sec.

7.ENVIRONMENTAL REQUIREMENTS

7.1	High Temperature Storage	Δ V1mA/V1mA ≅±5%	Ambient Temp: 125±2℃ Duration:1000h
7.2	Low Temperature Storage	Δ V1mA/V1mA ≅±5%	Ambient Temp: -40±2℃ Duration:1000h
7.3	High Humidity Storage/Damp Heat	Δ V1mA/V1mA ≅±5%	Ambient Temp: 40±2℃ 90-95% R.H. Duration:1000h
7.4	Temperature Cycle	Δ V1mA/V1mA ≅±5%	5 Times
			Step Temperature (℃) Period (min)
			1 -40±3 30 ±3
			2 Room Temp 15 ±3
			3 125±3 30 ±3
			4 Room Temp 15 ±3
7.5	High Temperature Load	Δ V1mA/V1mA ≅±10%	Ambient temp:85±2℃ Duration:1000h Load: MAX. Allowable Voltage
7.6	High Humidity Load	Δ V1mA/V1mA ≅±10%	Ambient Temp: 40±2℃ 90-95%R.H.Duration:1000H Load: MAX. Allowable Voltage
7.7	Operating Temperature Range	-40℃ ~ +85℃	-40℃ ~ +85℃
7.8	Storage Temperature Range	-40℃ ~ +125℃	-40℃ ~ +125℃

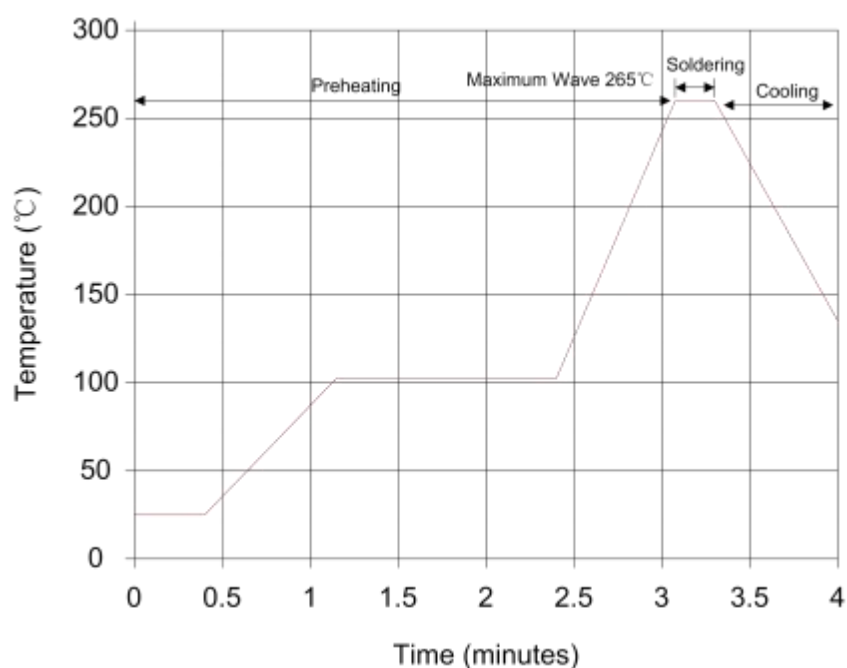
规格承认书

SPECIFICATION FOR APPROVAL

Rev1.0	SPECIFICATION			NO.			
PART NO.	53D561K			PAGE: 4 OF 4			
				DATE : 2022 年 8月 22日			
UL		CUL		VDE		CQC	

Soldering Recommendation

Wave Lead Free Soldering Recommendation



Item	Conditions
Peak Temperature	265°C
Dipping Time	10 seconds (max.)
Soldering	1 time

Recommendation Reworkin g Conditions with Solderin g Iron

Item	Conditions
Temperature of Soldering Iron-tip	360°C (max.)
Soldering Time	3 seconds (max.)
Distance from Varistor	2mm (min.)