□OEM(客户设计) □ODM(供应商设计)

产品承认书

客户名称: 永泰隆 产品名称: 压敏电阻

客户物料编号: 01020103043

供方物料编号: COV-14D681K(高能芯片)

版 本: A0

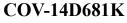
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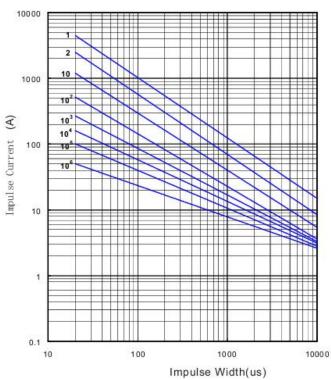
制造商		客户确认(品质)		客户确认 (研发)	
拟制	方虹	合 格□		合 格□	
האואה		不合格□		不合格□	
审核	陈庆国	审核		审核	
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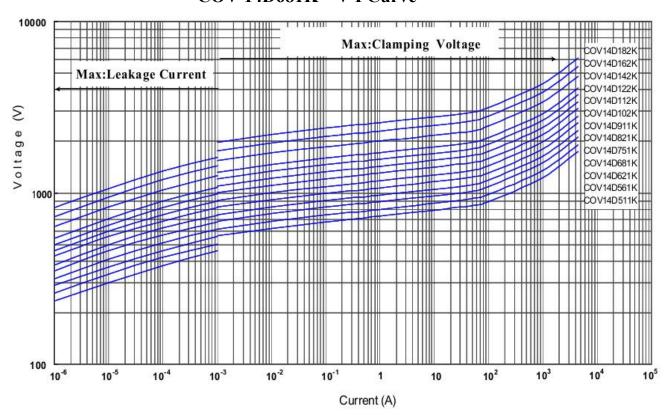
文件编号 NO: DX20190917003A						
规格型	민号 COV-14D681K(高	5能芯片) 安规: UL:E48539	95 体	系:ISO9001/IS	SO14001/OHSAS1800	
1.外	观结构	1				
1.1	外观	外观完	好,无	损伤,无氧化		
1.2 尺寸 尺寸 (mm)						
·	, Dmax	Tmax		Dmax	16. 5	
	+ Dillax	→ ₩	Hi Ti		18. 5	
	C0V 14D681				5. 9	
	(91 % A	Eo Hmax		F	7.50±1.0	
	Pmax 3. 0	/		d	0.8±0.05	
	+ Y-Y	· + 11	L	(Min)	20	
	L	4		Pmax	3	
	F	Unitmo		引线	电镀 CP 线	
	F			封材料	蓝色 (KH)	
2 +	性基本要求		打	印方式	镭射打印	
2.1	最大允许使用电压	AC: 460 (V) DC :615 (V)		_		
2.2	压敏电压	675~825 (V)		V1mA	V0. 1mA □	
2.3	最大静态功率	0.60 (W)				
2.4	最大限制电压	IP: 50 (A)	IP: 50 (A)		测试条件	
2.4	取入队前七压	Vc:1240 (V)	Vc:1240 (V)		$8/20~\mu$ s	
۰ -	早上活法穴里	1 Time: 6000 (1 Time: 6000 (A) 测试		则试条件	
2. 5	最大通流容量	2 Time:4500 (A)	2 Time:4500 (A)		8/20 μ s	
2. 6	最大能量耐量	210 (J)		测试条件 10/1000 µ s		
2. 7	静态参考电容量	270 (PF)		@1KHz		
2.8	漏电流	≤ 20 (μ A)		@80%*V1mA		
2. 9	冲击过后最大变化率	≦ ± 10% (V1mA)		测试条件 8/20 μ s		
2. 10	工作温度范围	-40°C ~ +125°C		-40°C ~ +125°C		
2. 11	储存温度范围	-40°C ~ +125°C		-40°C ~ +	125°C	

3. Inpulse Life Time Rating Curves:

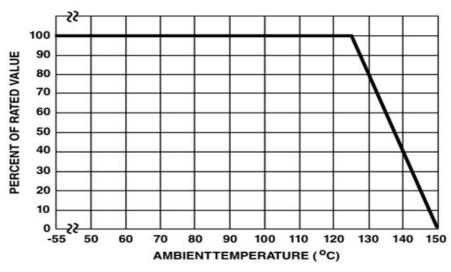




COV-14D681K V-I Curve

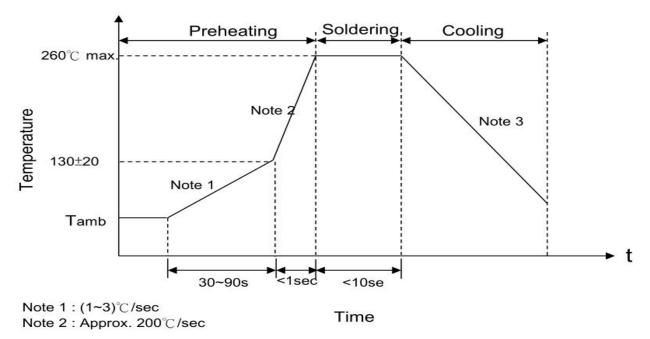


4、Current Energy and Power Derating Curve 电流、能量、功率递减曲线



(图1: 电流、能量、功率递减曲线)

5、Soldering Recommendation Profile 推荐焊接条件



Note3:5°C/sec Max

(图 2: 波峰焊曲线图)

Recommendation Reworking Conditions with Soldering Iron 烙铁重工焊接条件

项目	条件	
烙铁头部温度	360℃ (max.)	
焊接时间	3 sec (max.)	
焊接位置与涂装层距离	2 mm (min.)	

6. Reliability-Performance Characteristics (Electrical):

a. .				
Characteristics		Test Methods/Description		Specifications
Standard Test Condition		Environmental conditions under which every measuring is done without doubt on the measuring results. Unless specially specified, temperature, relative humidity are 5° C to 35° C, 45% to 85% RH.		_
Varistor Voltage		The voltage between two terminals with the specified meas applied is called Vc or Vc mA. The measurement shall be ma avoid heat affection.	_	
Maximum Allow	able Voltage	The maximum sinusoidal RMS voltage or maximum DC volta continuously in the specified environmental temperature ra		
Clamping Voltage		The maximum voltage between two terminals with the specified standard impulse current(8/20 µs) illustrated below applied.		To meet the specified value
Rated Po	ower	The power that can be applied in the specified ambient temperature.		
Maximum Energy		The maximum energy within the varistor voltage change of $\pm 10\%$ when one impulse of 2 ms or $10/1000~\mu s$ is applied.		
Maximum peck Current	2 times	The maximum current within the varistor voltage change of $\pm 10\%$ with the standard impulse current (8/20 μ s) applied twice with an interval of 5 minutes.		
Withstanding Surge Current	1 time	The maximum current within the varistor voltage change of impulse current (8/20 μs) applied once.	±10% with the standard	
Temperature Coefficient of Varistor Voltage		<u>Vc at 85 ℃ — Vc at 25 ℃</u> × <u>1</u> Vc at 25 ℃	⊤× 100(% / ℃)	- 0.05%/℃ Max
Capacita	ance	Capacitance shall be measured at 1 KHz ±10%, 1 Vrms max. 0V bias and 20 \pm 2 $^{\circ}\mathrm{C}$		To meet the
Dissipation Factor Dissipation Factor be measured at 1 KHz ±10		Dissipation Factor be measured at 1 KHz ±10%, 1 Vrms ma	ax. 0V bias and 20 \pm 2 $^\circ\!\mathrm{C}$	specified value
		The specified voltage shall be applied both terminals of together and metal foil closely wrapped round its both breakdown shall be examined.		
Withstanding Voltage (Body Insulation)		Classification (Nominal varistor voltage)	Test Voltage (AC)	No breakdown
		V0.1mA,V1mA ≦ 330V	1500Vrms	
			2500Vrms	

7、 Reliability-(Mechanical):

acteristics	Test Methods	Specifications
Robustness of Terminal (Tensile) Robustness of Terminal (Bending)	Test Methods IEC60068-2-21 After gradually applying the force specified below and keeping the unit fixed for the seconds, the terminal shall be visually examined for any damage. Terminal diameter Force Ф0.6 mm 9.8N (1.0Kgf) Ф1.0 mm 19.6N(2.0Kgf) IEC60068-2-21 The unit shall be secured with its terminal kept vertical and the force specified below be applied in the axial direction. The terminal shall gradually be bent by 90° in one direction, then 90° in the opposite direction, and again back to the original position. The terminal shall be visually examined for any damage. Terminal diameter Force .	Specifications No visible damage
(Bending) Vibration	Φ0.6 mm 4.9N (0.5Kgf) Φ0.8 mm 4.9N (0.5Kgf) Φ1.0 mm 9.8N (1.0Kgf) IEC 60068-2-6 After repeatedly applying a single harmonic vibration(amplitude0.75mm) double amplitude:1.5mm with 1 minute vibration frequency cycles(10 Hz to 55 Hz to 10Hz) to each of three perpendicular directions for 2 hours (Duration: 3*2h= 6 h). Thereafter, the unit shall be visually examined.	
Solderability	IEC 60068-2-20 After dipping the terminals to a depth of approximately 3mm from the body in a soldering bath of $260\pm5^{\circ}$ C for 2 ± 0.5 seconds, the terminal shall be visually examined.	Approximately 95% the terminals shall be covered with solder uniformly
Resistance to Soldering Heat	IEC 60068-2-20 After each lead shall be dipped into a solder bath having a temperature $260\pm5^{\circ}$ C to a point 2.0 to 2.5 mm from the body of the unit, using shielding board (t=1.5mm), be held there for specified time(3 series: 3 ± 1 s, 5 series: 5 ± 1 s and others: 10 ± 1 s), and then be stored at room temperature and humidity for 1 to 2 hours. The change of Vc and mechanical damages are examined.	△VcmA/VcmA ≦ ±5 No visible damage

8. Reliability-(Environmental):

Characteristics	Test Metho	Specifications			
High Temperature Storage/Dry Heat	IEC 60068-2 The specime and then sto				
Damp Heat/Humidity (Steady State)	The specime	IEC 60068-2-78 The specimen shall be subjected to $40\pm2^{\circ}$ C,90 to 95% RH for 1000 hours without load and then stored at room temperature and humidity for one to two hours. Thereafter, the change of Vc shall be measured.			
	The temperature	IEC 60068-2-14 The temperature cycle shown below shall be repeated five times and then stored at room temperature and humidity for one to two hours. Then change of Vc and mechanical damage shall be examined.			
Rapid Change of	Step	Temperature(${}^{\circ}\!\mathbb{C}$)	Period(minutes)		
Temperature Cycle	1	-40±3	30±3		
	2	Room temperature	15±3		
	3	125±2	30±3		
	4	Room temperature	15±3		
High Temperature load/Dry Heat Load	IEC 61051-1 After being specimen shochange of	ΔVcmA/VcmA≦±10%			
Damp Heat load/ Humidity Load	The specime for 1000 ho Thereafter,	Δ VcmA/VcmA ≦ ±10%			
Low Temperature Storage/Cold	The specime	Δ VcmA/VcmA ≦ ±5%			