产品承认书

客户名称:

产品名称: 压敏电阻

客户物料编号: 01020103044

供方物料编号: COV-20D681K(高能芯片)

版 本: A0

承认书生效日期:

制法	造商	客户确认(品质)		客户确认 (研发)	
拟制	方虹	方虹 合 格□		合 格□	
		不合格□		不合格□	
审核	陈庆国	审核		审核	
批准	付关军	批准		批准	

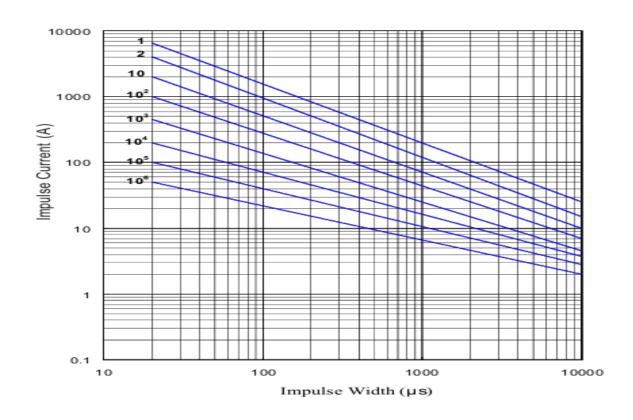
(双方确认承认书合格后必须签字盖章)

Rev.	Description of Ch	ange/变更内容描述	Changed	/ I	
版本	Before/变更前	After/变更后	Date/日期	经手人	
A0	别图	c¶ [®] ∪s	2019.09.17	陈庆国	
A1					
A2					
A3					
A4					
A5					
A6					

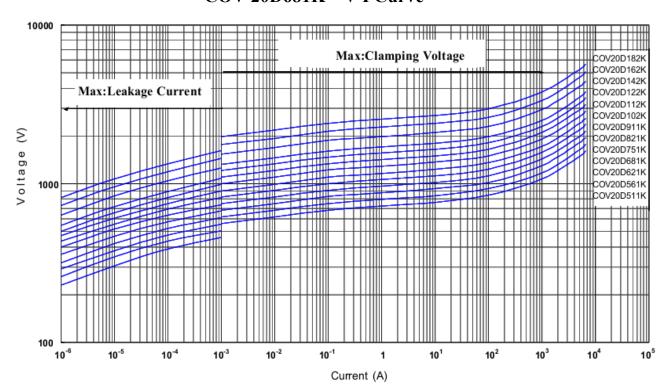
文件编	号		NO: DX20190917	7001	A		
规格型号 COV-20D681K (高能芯)		安规: UL:E485395	体	系: ISO9001/IS	O14001/OHSAS1800		
1.外	观结构						
1.1	外观		外观完好	,无	损伤,无氧化		
1.2 尺寸 尺寸 (mm)							
'	, Dmax .	Tmax		Dmax		25	
		. 🙀		1	Hmax	27. 5	
	COV 20D681K				Tmax	7. 2	
	csu [®] us AF9 Hma	x			F	10.0±1.0	
Pm	nax3. 0				d	1.0±0.05	
	# A A T	- 11		L	(Min)	20	
	Ĺ			ĺ	Pmax	3	
	→ 				引线	电镀 CP 线	
	- 	Unit:mm			封材料	蓝色(KH)	
- 1-	11 ab la er 15			打	印方式	镭射打印	
2.电	性基本要求						
2.1	最大允许使用电压	A	AC: 460 (V) DC :615 (V)		测试		
2.1	取入几件 区州 七/2	D					
2.2	压敏电压		675 ⁸²⁵ (V)		V1mA	V0. 1mA □	
2.3	最大静态功率		1.0 (W)				
	已 上阳 小		IP: 100 (A)		测试条件		
2.4	最大限制电压		Vc:1240 (V)		8/20 μ s		
0 -	日1は六か日		1Time: 10000 (A)	测试条件		1试条件	
2. 5	最大通流容量		2 Time:6500 (A)		8/20 μ s		
0 /	电上张电工电	化早叶早 (00/1)		ž	则试条件		
2. 6	取大舵重啊重	最大能量耐量 420(J)				10/1000 μ s	
2. 7	静态参考电容量		530 (PF)		@1KHz		
2. 8	漏电流		\leq 20 (μ A)		@80% *V 1mA		
					测试条件		
2. 9	冲击过后最大变化。	<u>`</u>	≦±10% (V1mA)		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:

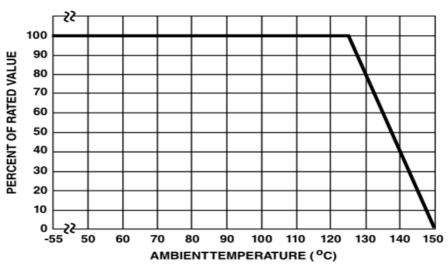
COV-20D681K



COV-20D681K V-I Curve

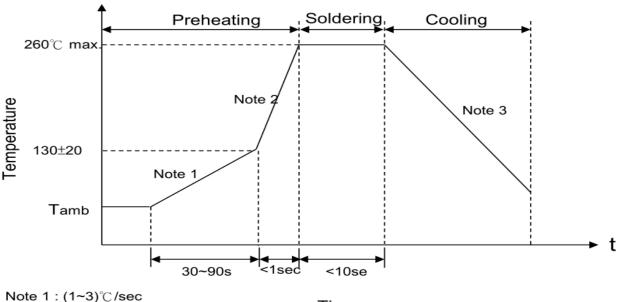


4、Current Energy and Power Derating Curve 电流、能量、功率递减曲线



(图1: 电流、能量、功率递减曲线)

5、Soldering Recommendation Profile 推荐焊接条件



Note 1 : (1~3)°C/sec Note 2 : Approx. 200°C/sec

Time

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):

Chausata				
Characteristics		Test Methods/Description	Specifications	
Standard Test	Condition	Environmental conditions under which every measuring is d measuring results. Unless specially specified, temperature, r 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 spectourrent(8/20 µs) illustrated below applied. Crest value Time Impulse width	To meet the specified value	
Rated Po	wer	The power that can be applied in the specified ambient temperature.		1
Maximum Energy		The maximum energy within the varistor voltage change of 2 ms or 10/1000 µs is applied.		
Maximum peck Current	peck 2 times The maximum current within the varistor voltage change of ±10% with the standard impulse current (8/20 μs) 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		$\frac{\text{Vc at 85 } \mathbb{C} - \text{Vc at 25 } \mathbb{C}}{\text{Vc at 25 } \mathbb{C}} \times \frac{1}{60} \times 100 (\% / \mathbb{C})$		- 0.05%/℃ Max
Capacitance		Capacitance shall be measured at 1 KHz ±10%, 1 Vrms max. 0V bias and 20 \pm 2 $^\circ\mathrm{C}$		To meet the
Dissipation	Dissipation Factor Dissipation Factor be measured at 1 KHz \pm 10%, 1 Vrms max. 0V bias and 20 \pm 2 $^{\circ}$ C		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	

7、 Reliability-(Mechanical):

icteristics	Test Methods	Specifications
	IEC60068-2-21	
	After gradually applying the force specified below and keeping the unit fixed for the seconds, the	
Robustness of	terminal shall be visually examined for any damage.	
Terminal	Terminal diameter Force	
(Tensile)	Φ0.6 mm 9.8N (1.0Kgf)	
	Ф0.8 mm 9.8N (1.0Kgf)	
	Φ1.0 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	
Robustness of	opposite direction, and again back to the original position.	No visible damage
Terminal	The terminal shall be visually examined for any damage.	_
(Bending)	_Terminal diameter Force .	
	Ф0.6 mm 4.9N (0.5Kgf)	
	Ф0.8 mm 4.9N (0.5Kgf)	
	Ф1.0 mm 9.8N (1.0Kgf)	
	IEC 60068-2-6	
vel e	After repeatedly applying a single harmonic vibration(amplitude0.75mm) double amplitude:1.5mm	
Vibration	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.	
	IEC 60068-2-20	Approximately 95%
Solderability	After dipping the terminals to a depth of approximately 3mm from the body in a soldering bath of	the terminals shall
00.40.40,	260±5℃ for 2±0.5 seconds, the terminal shall be visually examined.	covered with solde
		uniformly
Posistanco to		
	IEC 60068-2-20	
	After each lead shall be dipped into a solder bath having a temperature 260±5 $^{\circ}\mathrm{C}$ to a point 2.0 to	
Resistance to	2.5 mm from the body of the unit, using shielding board (t=1.5mm), be held there for specified	
Soldering Heat	time(3 series: 3±1 s, 5 series:5±1 s and others:10±1 s), and then be stored at room temperature and	No visible damage
		I

8. Reliability-(Environmental):

Characteristics	Test Metho	Specifications					
High Temperature Storage/Dry Heat	The specime and then sto						
Damp Heat/Humidity (Steady State)	The specime stored at ro	IEC 60068-2-78 The specimen shall be subjected to 40±2°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 shalbe 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($^{\circ}\!$	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 sh change 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%					