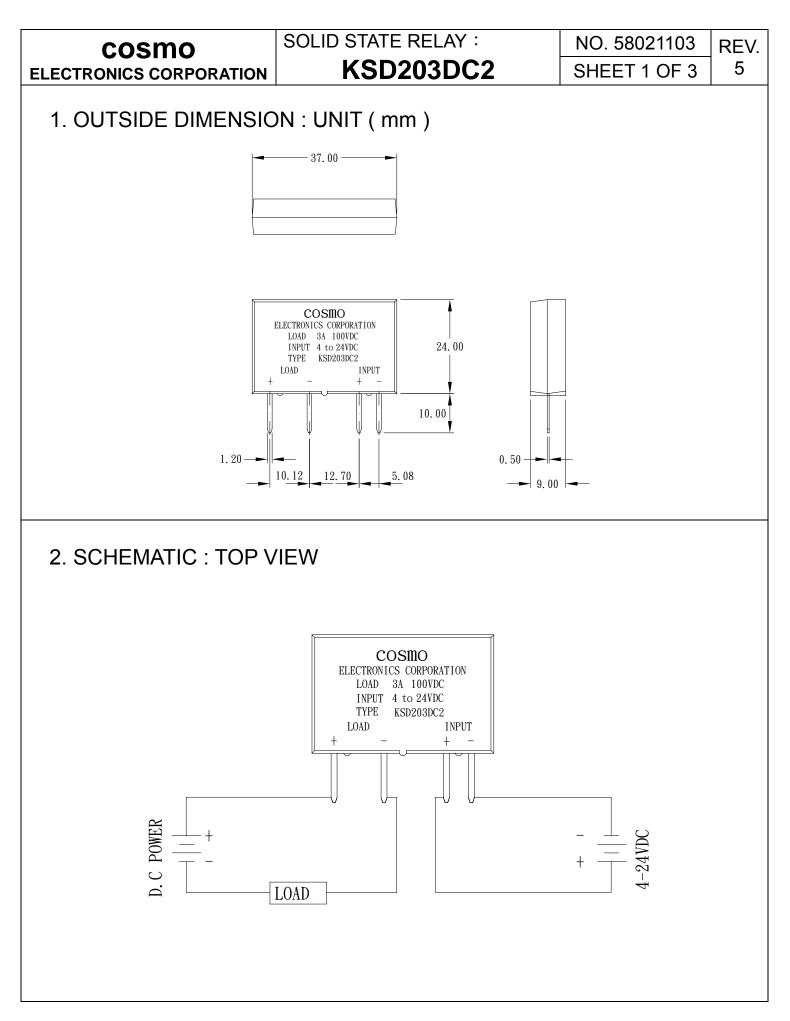
## **PRODUCT SPECIFICATION**



# **PRODUCT SPECIFICATION**

COSMO LECTRONICS CORPORATION		SOLID STATE RELAY :				NO. 58021103			RE
		KSD203DC2				SHEET 2 OF		= 3	5
3.Absol	ute Maximum Ra	atings		1					
Parameter				Symbol		Rating		Unit	
Input	Input signal voltage			Vin		4~24	1	VDC	
	Drop-out voltage			Vdo		1		VDC	
	Output power dissipation			Pc		30		w	
Output	Collector voltage			V <sub>CEO</sub>		100		V	
	Output current				lo	3		А	
Peak surge current 50us				lsı	ırge	9		А	
Isolation voltage			V	iso	4000	4000		Vrms	
Operating temperature				Т	<sup>-</sup> opr -30~1		00	°C	
Storage temperature				Т	stg -30~12		25	°C	
Soldering temperature 10 sec				Tsol		260		°C	
4.Electr	ical Characterist	ics			T		T		
Parameter		Symbol	Condition	Conditions		TYP	MAX	U	nit
Input	Pick-up voltage	Vpu	It=1Arms				4	4 VE	
	Input current	lin	Vin=4~24V				25	25 m	
	Terminal capacitance	C <sub>T</sub>	V=0,f=1KHz			30		р	F
Output	Collector-emitter breakdown voltage	BV <sub>CEO</sub>	I <sub>F</sub> =0		100				
	Output leak current	lleak	V=30V, I <sub>F</sub> =0				15	u	A
Collector current		Ι <sub>C</sub>	I <sub>F</sub> =1mA, V <sub>CE</sub>	I <sub>F</sub> =1mA, V <sub>CE</sub> =2V			3	ŀ	4
Collector-emitter saturation voltage		V <sub>CE</sub> (sat)	I <sub>F</sub> =5mA, I <sub>C</sub> =10	I <sub>F</sub> =5mA, I <sub>C</sub> =100mA			2.0	١	/
Isolation resistance		Riso	DC500V		10			G	Ω
Floating capacitance		Cr	V=0,f=1MHz				3	р	F
Cut-off frequency		Fc	V <sub>CE</sub> =2V,Ic=200mA R <sub>L</sub> =100Ω		2			Kł	Ηz
Response time(Rise)		Tr	V <sub>CE</sub> =2V,Ic=20mA				500	u	S
Response time(Fall)		Tf	R <sub>L</sub> =100Ω				200	u	S

# **PRODUCT SPECIFICATION**

### COSMO ELECTRONICS CORPORATION

### SOLID STATE RELAY : KSD203DC2

NO. 58021103 SHEET 3 OF 3

#### • Application Notice

The statements regarding the suitability of products for certain types of applications are based on cosmo's knowledge of general applications of cosmo products. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to verify the specifications are suitable for use in a particular application. Customers are solely responsible for all aspects of their own product design or applications. The parameters provided in the datasheet may vary in different applications and performance may vary over time. All operating parameters (including typical parameters) must be validated by customer's technical experts for different applications. cosmo assumes no liability for customer' product design or applications. Product specifications do not expand or otherwise change cosmo's terms and conditions of purchase, including but not limited to the warranty expressed therein.

When using cosmo products, please comply with safety standards and instructions. cosmo has no liability and responsibility to the damage caused by improper use of the instructions specified in the specifications.

cosmo products are designed for use in general electronic equipment such as telecommunications, office automation equipments, personal computers, test and measurement equipments, consumer electronics, industrial control, instrumentation, audio, video.

cosmo devices shall not be used in equipment that requires higher level of reliability and safety, such as nuclear power control equipment, telecommunication equipment(trunk lines), space application, medical and other life supporting equipments, and equipment for aircraft, military, automotive or any other application that can cause human injury or death.

cosmo reserves the right to change the specifications, data, characteristics, structure, materials and other contents at any time without notice. Please contact cosmo to obtain the latest specification.

cosmo disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.