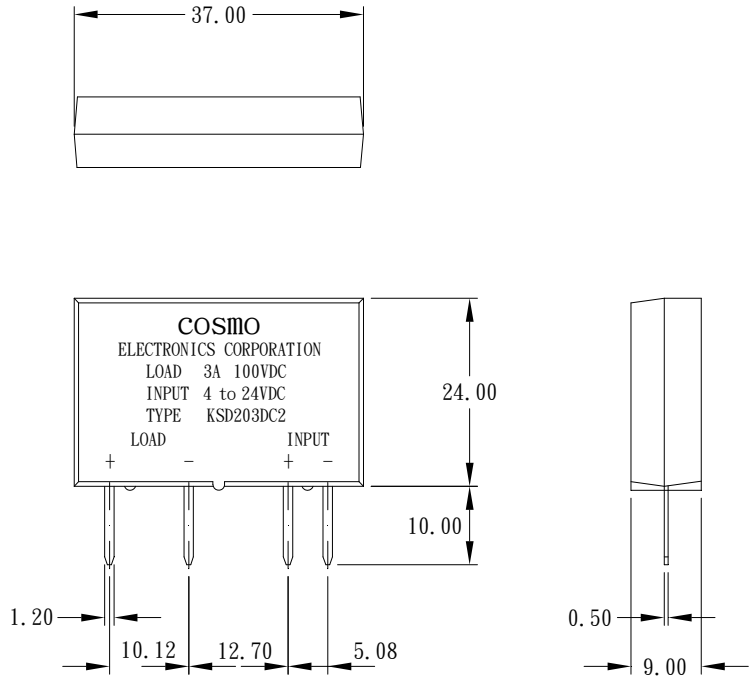
PRODUCT SPECIFICATION

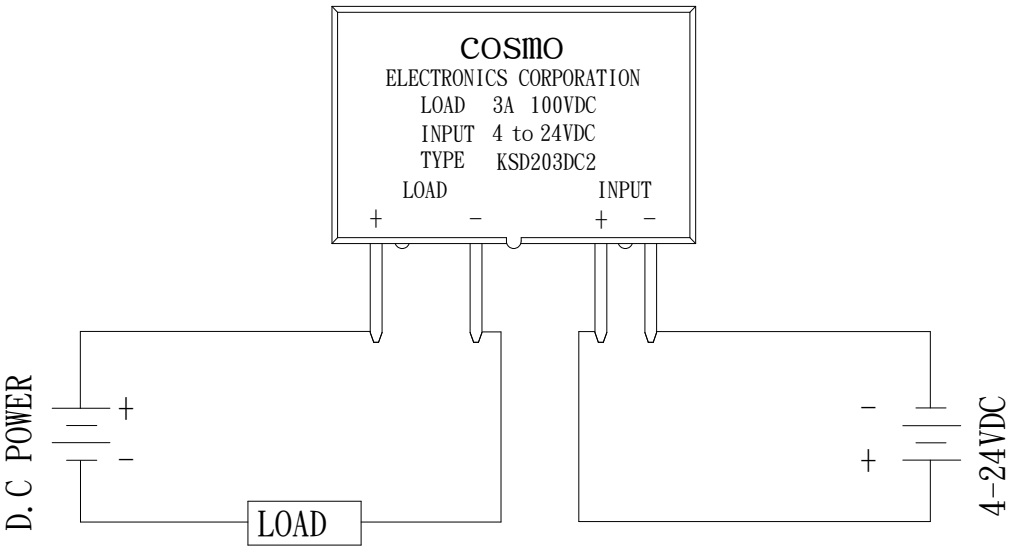
DATE: 05/27/11'

cosmo ELECTRONICS CORPORATION	SOLID STATE RELAY : **KSD203DC2**	NO. 58021103 SHEET 1 OF 2	REV. 4

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



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DATE: 05/27/11'

cosmo ELECTRONICS CORPORATION	SOLID STATE RELAY : KSD203DC2	NO. 58011203	REV. 4
		SHEET 2 OF 2	

3.Absolute Maximum Ratings

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V_{IN}	4~24	VDC
	Drop-out voltage	Vdo	1	VDC
Output	Output power dissipation	Pc	30	W
	Collector voltage	V_{CEO}	100	V
	Output current	Io	3	A
Peak surge current 50us		Isurge	9	A
Isolation voltage		Viso	4000	Vrms
Operating temperature		Topr	-30~100	℃
Storage temperature		Tstg	-30~125	℃
Soldering temperature 10 sec		Tsol	260	℃

4.Electrical Characteristics

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	Vpu	It=1Arms			4	VDC
	Input current	Iin	Vin=4~24V			25	mA
	Terminal capacitance	C_T	V=0,f=1KHz		30		pF
Output	Collector-emitter breakdown voltage	BV_{CEO}	I_F=0	100			
	Output leak current	Ileak	V=30V, I_F =0			15	uA
Collector current		I_C	I_F=1mA, V_{CE} =2V	0.05		3	A
Collector-emitter saturation voltage		V_{CE} (sat)	I_F=5mA, I_C =100mA			2.0	V
Isolation resistance		Riso	DC500V	10			GΩ
Floating capacitance		Cr	V=0,f=1MHz			3	pF
Cut-off frequency		F_C	V_{CE}=2V,Ic=200mA R_L=100Ω	2			KHz
Response time(Rise)		Tr	V_{CE}=2V,Ic=20mA			500	uS
Response time(Fall)		Tf	R_L=100Ω			200	uS