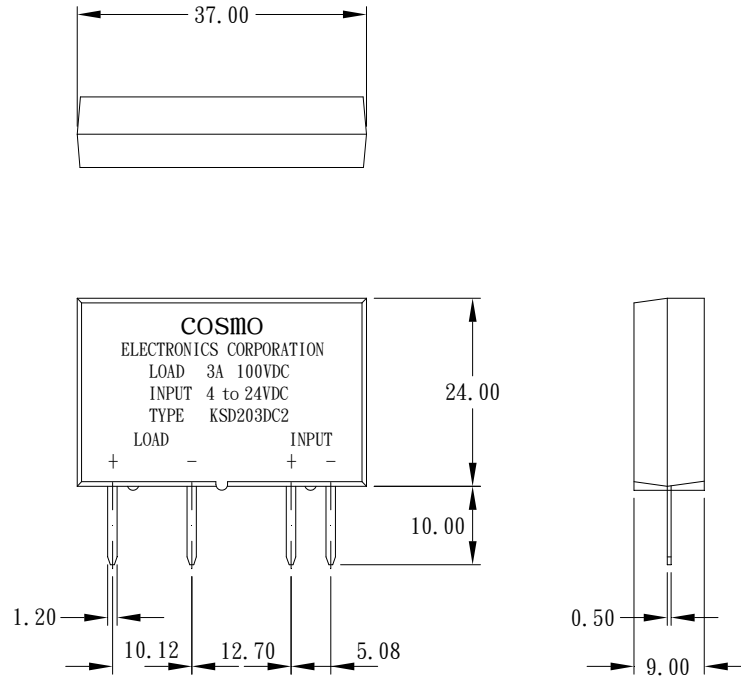


PRODUCT SPECIFICATION

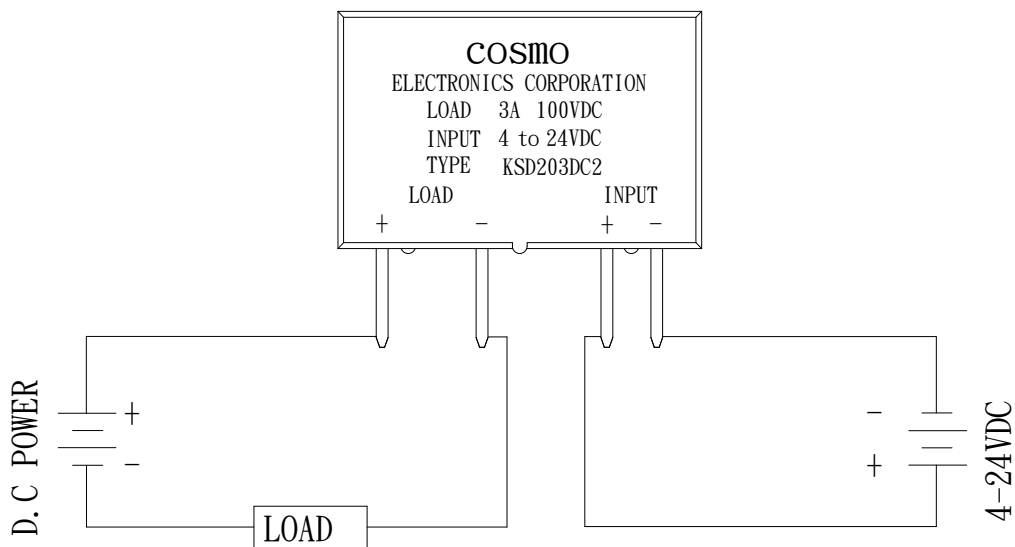
DATE: 05/27/11'

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

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



PRODUCT SPECIFICATION

DATE: 05/27/11'

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

3. Absolute Maximum Ratings

Parameter		Symbol	Rating	Unit
Input	Input signal voltage	V _{IN}	4~24	VDC
	Drop-out voltage	V _{do}	1	VDC
Output	Output power dissipation	P _c	30	W
	Collector voltage	V _{CEO}	100	V
	Output current	I _o	3	A
Peak surge current 50us		I _{surge}	9	A
Isolation voltage		V _{iso}	4000	V _{rms}
Operating temperature		T _{opr}	-30~100	°C
Storage temperature		T _{stg}	-30~125	°C
Soldering temperature 10 sec		T _{sol}	260	°C

4. Electrical Characteristics

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V _{pu}	I _t =1Arms			4	VDC
	Input current	I _{in}	V _{in} =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	I _{leak}	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		R _{iso}	DC500V	10			GΩ
Floating capacitance		C _r	V=0, f=1MHz			3	pF
Cut-off frequency		F _C	V _{CE} =2V, I _C =200mA R _L =100Ω	2			KHz
Response time(Rise)		T _r	V _{CE} =2V, I _C =20mA			500	uS
Response time(Fall)		T _f	R _L =100Ω			200	uS