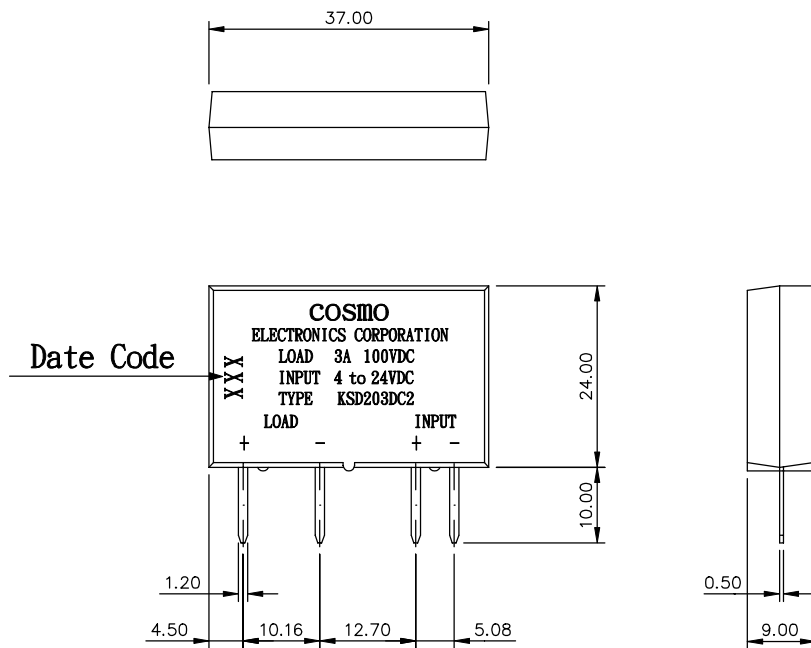


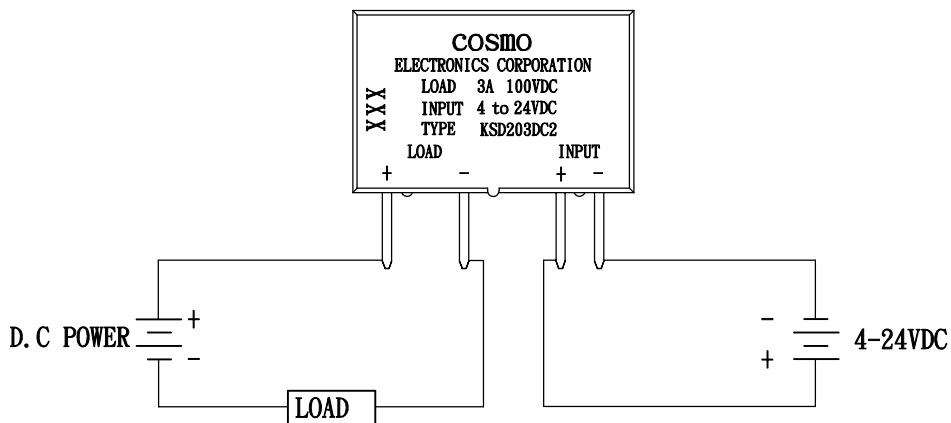
# PRODUCT SPECIFICATION

<b>COSMO</b> ELECTRONICS CORPORATION	<b>SOLID STATE RELAY:</b> <b>KSD203DC2</b>	<b>SHEET 1 OF 2</b>
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## 1. OUTSIDE DIMENSION : UNIT ( mm )



## 2. SCHEMATIC : TOP VIEW



# PRODUCT SPECIFICATION

<b>COSMO</b> ELECTRONICS CORPORATION	SOLID STATE RELAY: <b>KSD203DC2</b>	SHEET 2 OF 2
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## 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	$^{\circ}C$
Storage temperature		$T_{stg}$	-30-125	$^{\circ}C$
Soldering temperature 10sec		$T_{sol}$	260	$^{\circ}C$

## 4. Electrical Characteristics

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	$V_{pu}$	$I_t=1A_{rms}$			4	VDC
	Input current	$I_{in}$	$V_{in}=4-24V$			10	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	$\mu A$
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	$10^{10}$			$\Omega$
Floating capacitance		$C_r$	$V=0, f=1MHz$			3	pF
Cut-off frequency		$F_c$	$V_{CE}=2V, I_c=200mA$ $R_L=100\Omega$	2			KHz
Response time(Rise)		$T_r$	$V_{CE}=2V, I_c=20mA$			500	$\mu S$
Response time(Fall)		$T_f$	$R_L=100\Omega$			200	$\mu S$