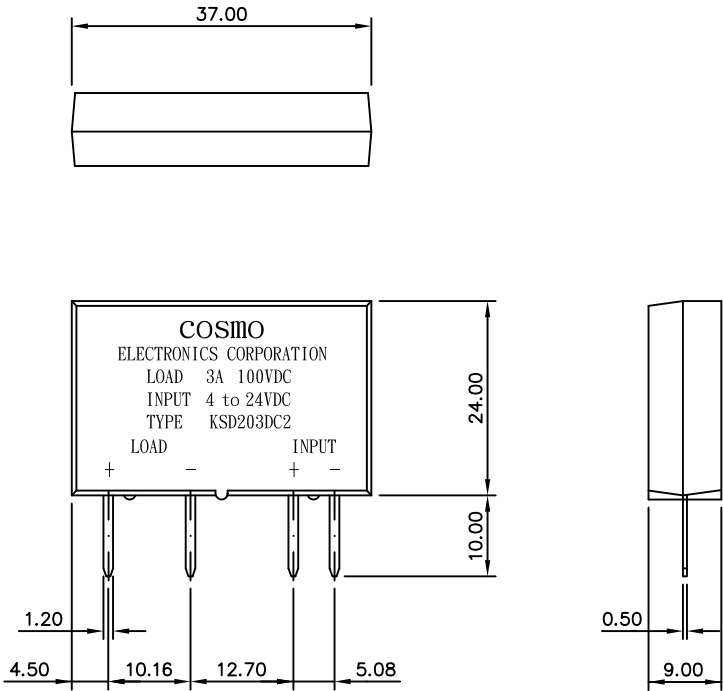


PRODUCT SPECIFICATION

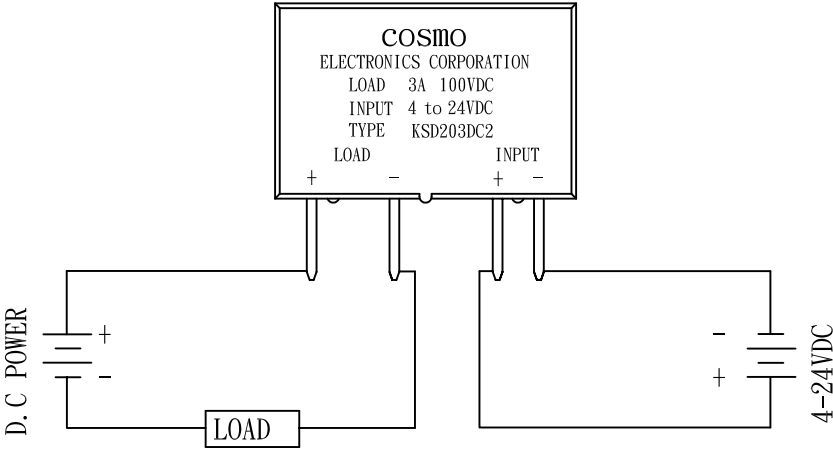
DATE: 10/13/04'

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD203DC2	NO. 58021103	REV. 3
		SHEET 1 OF 2	

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



PRODUCT SPECIFICATION

DATE: 10/13/04'

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD203DC2	NO. 58021103	REV. 3
		SHEET 2 OF 2	

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 10sec		T_{sol}	260	°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}	$V_{in}=4-24V$			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^{10}			Ω
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	uS
Response time(Fall)		T_f	$R_L=100\Omega$			200	uS