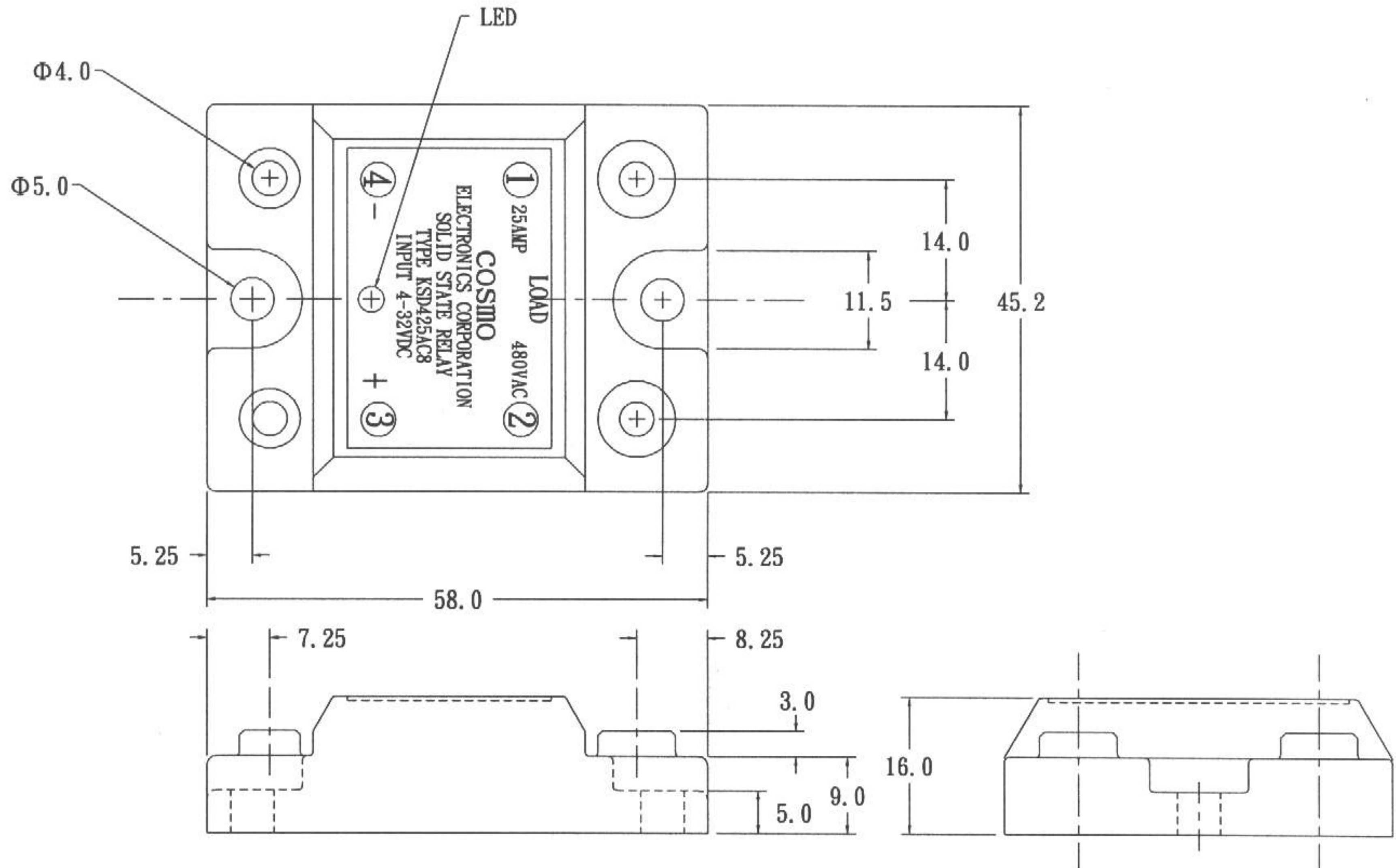


PRODUCT SPECIFICATION

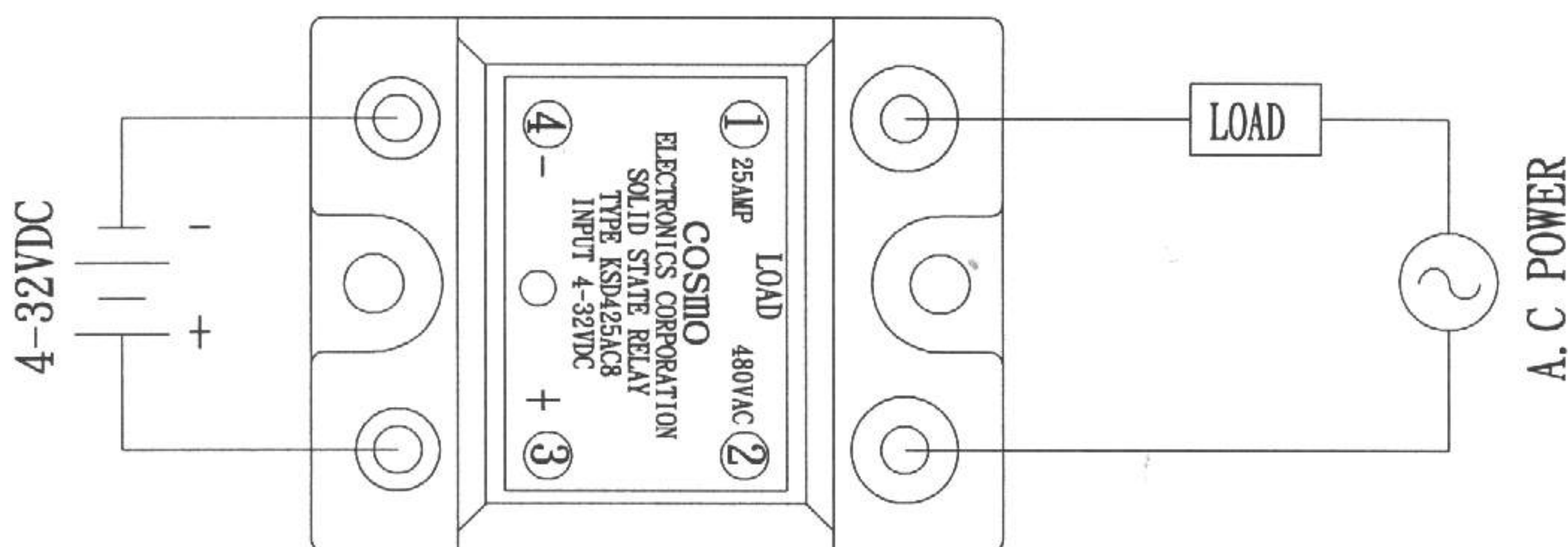
DATE: 03/21/00'

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD425AC8	NO. 58082425	REV. 3
		SHEET 1 OF 2	

1. OUTSIDE DIMENSION : UNIT (mm)



2. SCHEMATIC : TOP VIEW



ISSUE <i>Michael Chen</i> 03-21-00	CHECK <i>Dean. Yu.</i> 03-21-00	APPROVED <i>Stm Hsu 3-21-00</i>
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PRODUCT SPECIFICATION

DATE: 03/21/00'

COSMO ELECTRONICS CORPORATION	SOLID STATE RELAY: KSD425AC8	NO. 58082425 SHEET 2 OF 2	REV. 3
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3. Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Input	Input signal voltage	V _{IN}	4~32 VDC
	Drop-out voltage	V _{do}	1 VDC
Output	RMS on-state current	I _T	25 Arms
	Peak one cycle surge current (8.3ms)	I _{surge}	250 A
	Repetitive peak-off state voltage	V _{DRM}	1200 V
	Operating frequency	f	47~70 Hz
	Critical rate of rise of on-state current	di/dt	50 A/us
	Load supply voltage	V _{out}	480 Vrms AC
Isolation voltage input to output		V _{iso}	4000 Vrms
Operating temperature		T _{opr}	-30~100 °C
Storage temperature		T _{stg}	-30~125 °C
Soldering temperature 10sec		T _{sol}	300 °C

4. Electro-optical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up voltage	V _{pu}			4	VDC
	Input current	I _{in}	I _{in} =1Arms V _{in} =4~32V	5		12 mA
Output	On-state voltage	V _T	I _T =1Arms		1.5	Vrms
	Operating current	I _{op}	V _{out} =480Vrms	50		mArms
	Leakage current	I _{leak}	V _{out} =480Vrms		14	mArms
	Critical rate of rise of off-state voltage	dv/dt		50	200	V/us
	Zero-cross voltage	V _{ox}	I _{in} =7mA			35 VAC
	Load Voltage Rating	V _{out}	I _T =50mArms MIN	75		280 VAC
Minimum trigger current		I _{FT}	V _{DRM} =1200V		25	mA
Isolation resistance input to output		R _{iso}	DC500V	10		GΩ
Turn-on time		T _{on}	60Hz AC		8.3	ms
Turn-off time		T _{off}	60Hz AC		8.3	ms
Thermal resistance (between junction and case)		R _{th} (j-c)1		1.3		°C/W

ISSUE <i>Michael Chen</i> 03-21-00	CHECK <i>Dean Yu</i> 03-21-00	APPROVED 03-21-00
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