

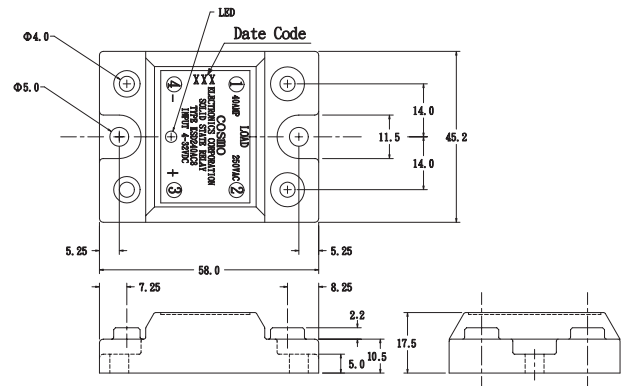
Features

1. Molded epoxy body.
2. Zero crossing circuit.
3. High input/output insulation.
4. Small size and light weight.
5. Fast reactive speed.
6. Good heat sinking.
7. Normally open.

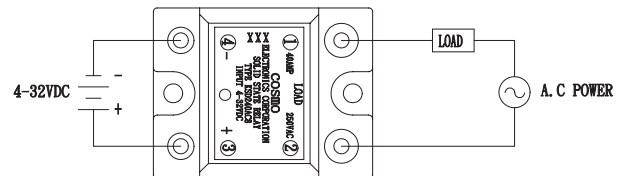
Applications

1. Household Appliances.
2. Temperature Control System.
3. Industrial Automatic Control.
4. Lighting System.
5. Office Appliances.
6. Factory Appliances.

Outside Dimension : Unit (mm)



Schematic : Top View



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	40	Arms
	Peak one cycle surge current (8.3 ms)	I _{surge}	400	A
	Repetitive peak-off state Voltage	V _{DRM}	600	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	di/dt	50	A/μS
	Load supply voltage	V _{out}	250	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

Electrical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up Voltage	V _{pu}	I _T =1Arms			4	VDC
	Input current	I _{in}	V _{in} =4-32V	5		12	mA
Output	On-state Voltage	V _T	I _T =1Arms			1.5	Vrms
	Operating Current	I _{op}	V _{out} =240Vrms	50			mArms
	Leakage Current	I _{leak}	V _{out} =240Vrms		3.5	7	mArms
	Critical rate of rise of off-state Voltage	dv/dt	See Note 1	50	200		V/μS
	Zero-cross Voltage				Yes		
	Load Voltage Rating	V _{out}	I _T =50mArms MIN	50		280	VAC
Minimum trigger current		I _{FT}	V _{DRM} =600V			25	mA
Isolation resistance input to output		R _{iso}	DC500V	10 ¹⁰			Ω
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)}	I		1.3		°C/W

Note1 : Output (dv/dt) protection is provided in all models, and they are designed to switch resistive or inductive loads to 0.2 power factor. The dv/dt rating is based on source impedance of 50 ohms.

Data Curve

Fig.1 RMS On-state Current vs. Ambient Temperature

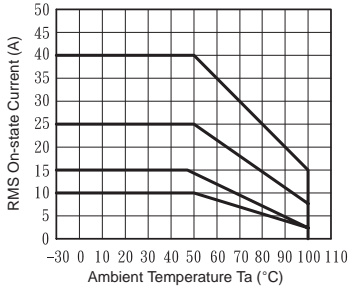


Fig.2 Surge Current vs. Time f=60Hz Tj=25°C

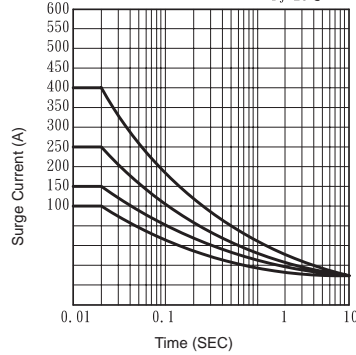


Fig.3 Open Circuit Leak Current vs. Supply Voltage Ta=25°C

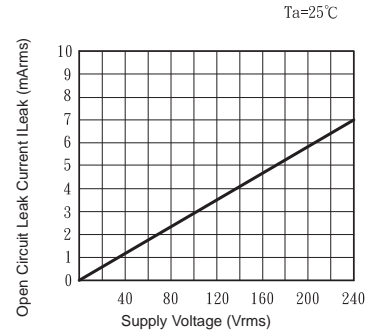


Fig.4 RMS On-state Current vs. Case Temperature

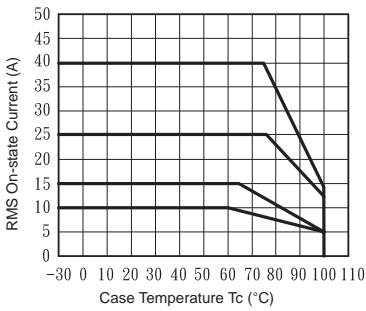


Fig.5 Input Voltage vs. Ambient Temperature

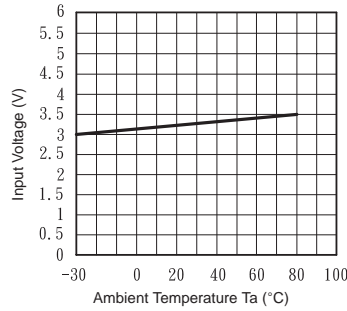


Fig.6 Input Current vs. Input voltage

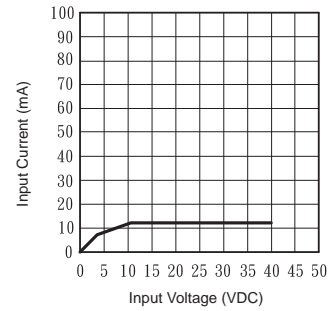


Fig.7 Action waveform

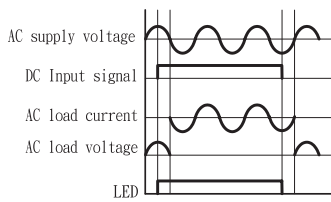
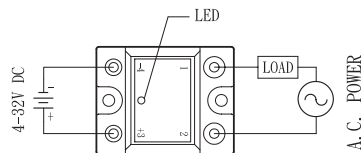


Fig.8 WIRING DIAGRAM



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Datasheets for electronics components.