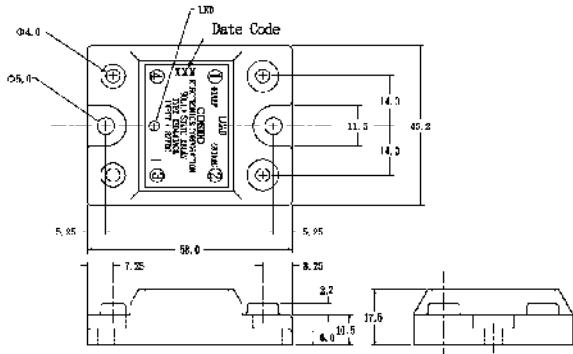
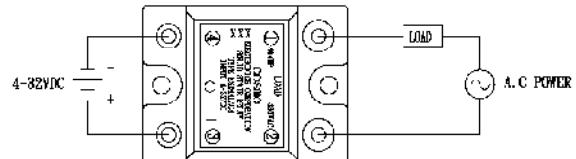


**Features**

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)

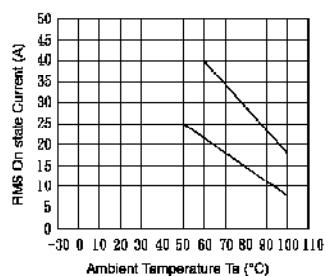
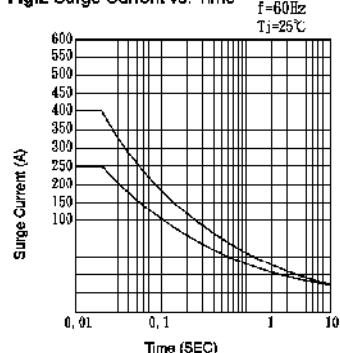
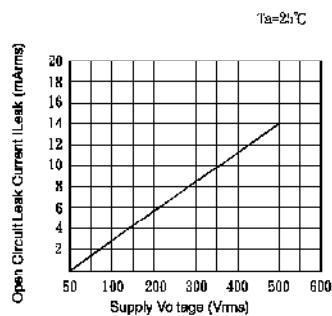
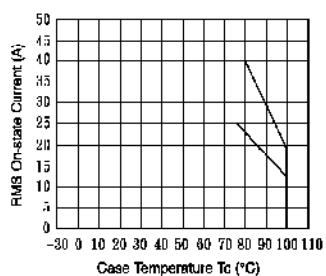
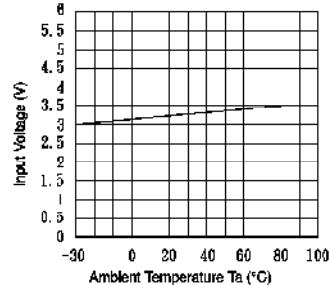
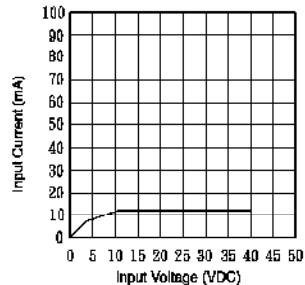
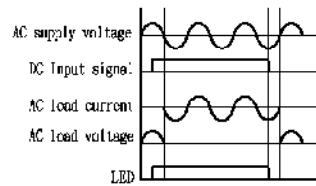
Parameter		Symbol	Rating	Unit
Input	Input Signal Voltage	V <sub>IN</sub>	4-32	VDC
	Drop-out Voltage	V <sub>da</sub>	1	VDC
Output	RMS on-state current	I <sub>T</sub>	40	Arms
	Peak one cycle surge current (8.3 ms)	I <sub>surge</sub>	400	A
	Repetitive peak-off state Voltage	V <sub>DORM</sub>	800	V
	Operating frequency	f	47~70	Hz
	Critical rate of rise of on-state current	dI/dt	50	V/ $\mu$ s
Load supply voltage		V <sub>out</sub>	480	Vrms AC
Isolation Voltage input to output		V <sub>iso</sub>	4000	Vrms
Operating Temperature		T <sub>opr</sub>	-30~100	°C
Storage Temperature		T <sub>stg</sub>	-30~125	°C

**Electrical Characteristics**

(Ta=25°C)

Parameter		Symbol	Conditions	MIN	TYP	MAX	Unit
Input	Pick-up Voltage	V <sub>pu</sub>	I <sub>T</sub> =1Arms			4	VDC
	Input current	I <sub>in</sub>	V <sub>IN</sub> =4-32V	5	12	mA	
Output	On-state Voltage	V <sub>T</sub>	I <sub>T</sub> =1Arms			1.5	Vrms
	Operating Current	I <sub>op</sub>	V <sub>out</sub> =480Vrms	50			mA rms
	Leakage Current	I <sub>leak</sub>	V <sub>out</sub> =480Vrms			14	mA rms
	Critical rate of rise of off-state Voltage	dV/dt	See Note 1	50	200		V/ $\mu$ s
	Zero-cross Voltage				Yes		
Load Voltage Rating		V <sub>out</sub>	I <sub>T</sub> =50mA rms MIN	75		480	VAC
Minimum trigger current		I <sub>FT</sub>	V <sub>DORM</sub> =800V			25	mA
Isolation resistance input to output		R <sub>iso</sub>	DC500V	10 <sup>12</sup>			$\Omega$
Turn-on time		T <sub>on</sub>	60Hz AC			8.3	ms
Turn-off time		T <sub>off</sub>	60Hz AC			8.3	ms
Thermal resistance (between junction and case)		R <sub>th</sub> (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****Fig.3 Open Circuit Leak Current vs. Supply Voltage****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**