

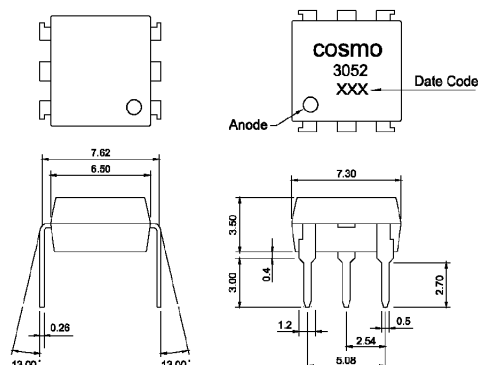
## Features

1. Compact dual-in-line package.
2. 600V peak blocking voltage.
3. Isolation voltage between input and output (Viso:5000Vrms).

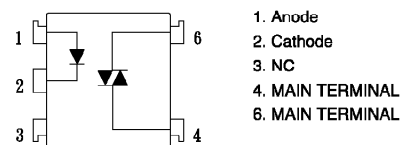
## For 115/240 Vac (rms) Application:

1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E. M. Contactors.
7. AC Motor Staters.
8. Solid State Relays.
9. Programmable controllers.

## Outside Dimension:Unit (mm)



## Schematic:Top View



## Absolute Maximum Ratings

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Input			
Forward current	IF	50	mA
Peak forward current (100us)	IFM	1	A
Reverse voltage	VR	6	V
Power dissipation	PD	70	mW
Output			
Off-State Output Terminal voltage	VDRM	600	Vpeak
On-State R. M. S. Current	IT(RMS)	100	mA
Peak Repetitive Surget Current (PW=10ms, DC 10%)	ITSM	1	A
Power dissipation	PD	300	mW
Total power dissipation	Ptot	330	mW
Isolation voltage 1 minute	Viso	5000	Vrms
Operating temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-50 to +125	°C
Soldering temperature 10 second	Tsol	260	°C

## Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input						
Forward voltage	VF	IF=10mA	—	1.2	1.4	V
Peak forward voltage	VFM	IFM=0.5A	—	—	3.5	V
Reverse Leakage Current	IR	VR=4V	—	—	10	μA
Output						
Peak Blocking Current	IDRM	VDRM=600V	—	—	100	nA
ON-State Voltage	VTM	ITM=100mA	—	1.6	2.8	V
Transfer characteristics						
Holding Current	IH		—	1.0	—	mA
Critical rate of rise of OFF-state voltage	dV/dt	VDRM= (1/√2) * Rated	600	1000	—	V/μS
Isolation resistance	Riso	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
Minimum trigger current	IFT	Main Terminal Voltage=3V	—	—	10	mA
Turn-on time	Ton	Vd=6V, RL=100 ohm, IF=20mA	—	—	100	μS

