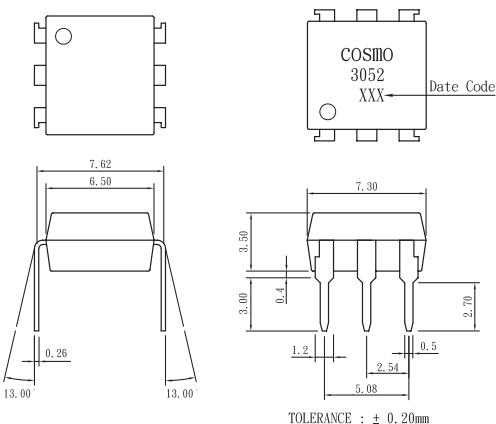


Features

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 Stators.
8. Solid State Relays.
9. Programmable controllers.

Outside Dimension:Unit (mm)**Schematic:Top View**

(Ta=25°C)

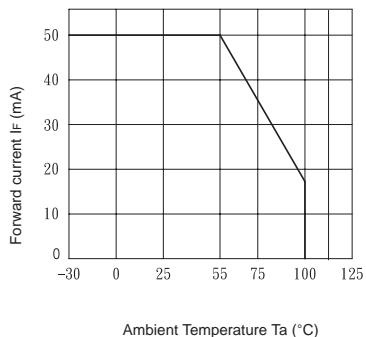
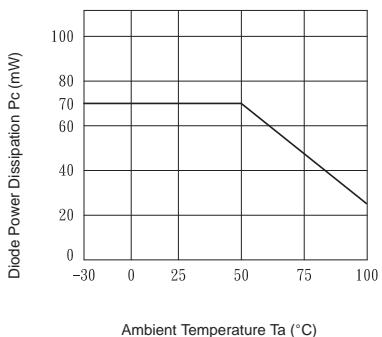
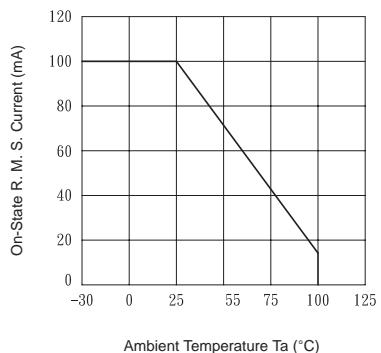
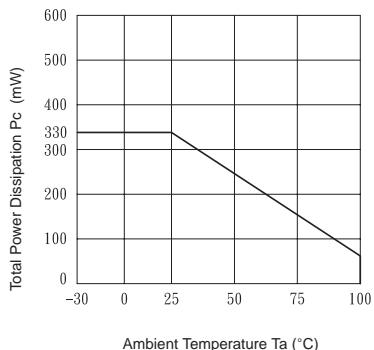
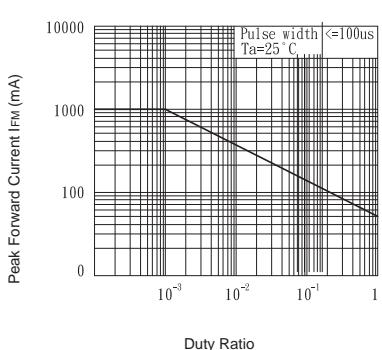
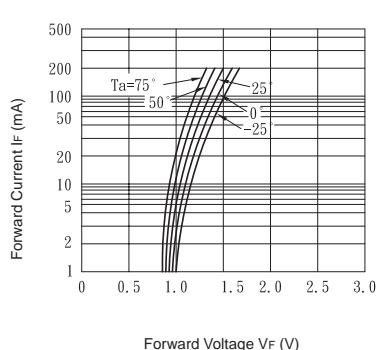
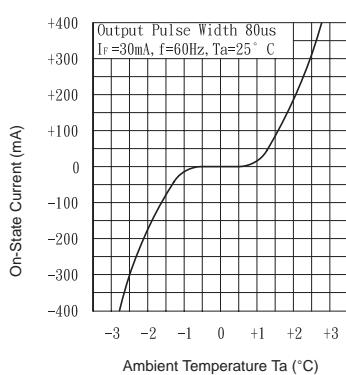
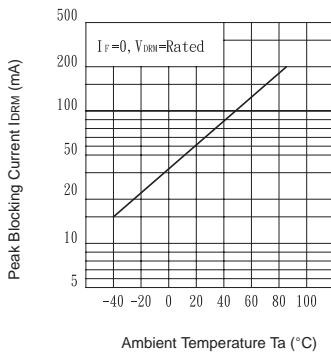
Absolute Maximum Ratings

Parameter		Symbol	Rating	Unit
Input	Forward current	I _F	50	mA
	Peak forward current (100us)	I _{FM}	1	A
	Reverse voltage	V _R	6	V
	Power dissipation	P _D	70	mW
Output	Off-State Output Terminal voltage	V _{DRM}	600	Vpeak
	On-State R. M. S. Current	I _T (RMS)	100	mA
	Peak Repetitive Surge Current (PW=10ms, DC 10%)	I _{TSM}	6	A
	Power dissipation	P _D	300	mW
Total power dissipation		P _{tot}	330	mW
Isolation voltage 1 minute		V _{iso}	5000	Vrms
Operating temperature		T _{opr}	-40 to +85	°C
Storage temperature		T _{tsg}	-50 to +125	°C
Soldering temperature 10 second		T _{sol}	260	°C

Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V _F	I _F =10mA		1.2	1.4	V
	Peak forward voltage	V _{FM}	I _{FM} =0.5A			3.5	V
	Reverse Leakage Current	I _R	V _R =4V			10	µA
Output	Peak Blocking Current	I _{DRM}	V _{DRM} =600V			100	nA
	ON-State Voltage	V _{TM}	I _{TM} =100mA		1.6	2.8	V
Transfer characteristics	Holding Current	I _H			1.0		mA
	Critical rate of rise of OFF-state voltage	dV/dt	V _{DRM} = (1/ 2) *Rated	600			V/ µS
	Isolation resistance	R _{iso}	DC500V	5x10 ¹⁰	10 ¹¹		ohm
	Minimum trigger current	I _{FT}	Main Terminal Voltage=3V			10	mA
	Turn-on time	T _{on}	V _D =6V, RL=100 ohm, I _F =20mA			100	µS

Fig.1 Forward Current vs.
Ambient Temperature

Fig.2 Diode Power Dissipation vs.
Ambient Temperature

Fig.3 On-State R. M. S. Current vs.
Ambient Temperature

Fig.4 Total Power Dissipation vs.
Ambient Temperature

Fig.5 Peak Forward Current vs.
Duty Ratio

Fig.6 Forward Current vs.
Forward Voltage

Fig.7 On-State Characteristics

Fig.8 Leakage with LED off vs.
Ambient Temperature

Fig.9 Trigger Current vs.
Ambient Temperature
