

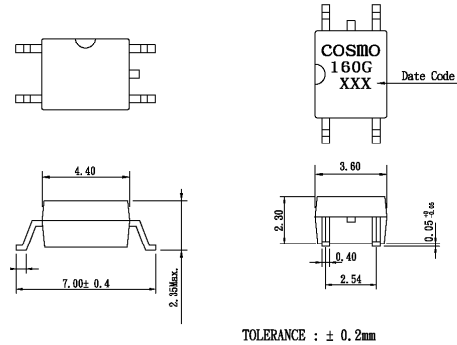
## Features

1. Opaque type, mini-flat package.
2. Subminiature type  
(The volume is smaller than that of our conventional DIP type by as far as 30%)
3. Isolation voltage between input and output (Viso:2500Vrms).

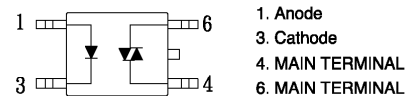
## For 115/240 Vac (rms) Application:

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	400 Vpeak
	On-State R. M. S. Current	IT(RMS)	70 mA
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	ITSM	1 A
	Power dissipation	PD	150 mW
Total power dissipation	Ptot	200 mW	
Isolation voltage 1 minute	Viso	2500 Vrms	
Operating temperature	Topr	-40 to +100 °C	
Storage temperature	Tstg	-50 to +125 °C	
Soldering temperature 10 second	Tsol	260 °C	

## Electro-optical Characteristics

(Ta=25°C)

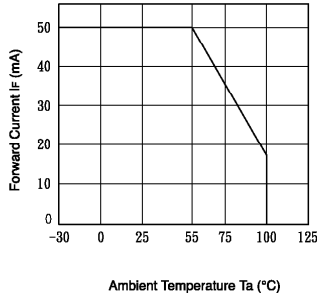
Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	IF=10mA	—	1.2	1.4	V
	Peak forward voltage	IFM=0.5A	—	—	3.5	V
	Reverse Leakage Current	VR=5V	—	—	10	μA
Output	Peak Blocking Current	VDRM=400V	—	—	1.0	μA
	ON-State Voltage	ITM=70mA	—	1.6	2.8	V
Transfer characteristics	Holding Current		—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	VDRM= (1/√2) *Rated	600	—	—	V/μS
	Isolation resistance	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
	Minimum trigger current	Main Terminal Voltage=3V	—	5	10	mA
Turn-on time		VD=6V, RL=100 ohm, IF=20mA	—	—	100	μS

Classification table of Trigger LED current is shown below.

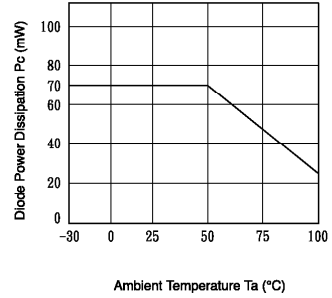
(Ta=25°C)

Classification	Trigger LED Current (mA)	
	Min.	Max.
1 (Standard)	-	10
2	-	7
3	-	5

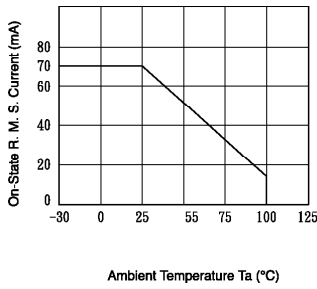
**Fig.1 Forward Current vs. Ambient Temperature**



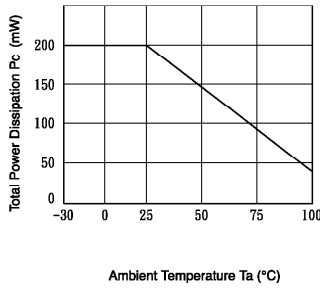
**Fig.2 Diode Power Dissipation vs. Ambient Temperature**



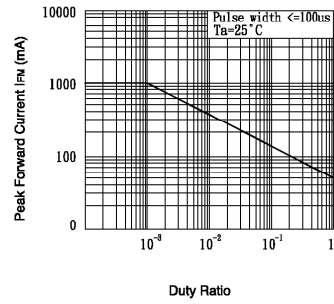
**Fig.3 On-State R. M. S. Current vs. Ambient Temperature**



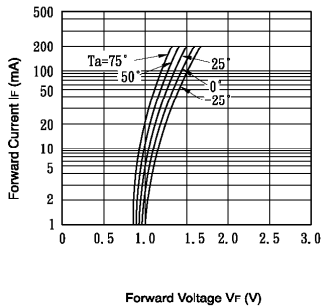
**Fig.4 Total Power Dissipation vs. Ambient Temperature**



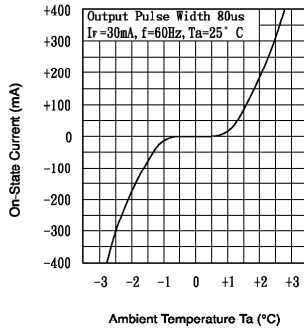
**Fig.5 Peak Forward Current vs. Duty Ratio**



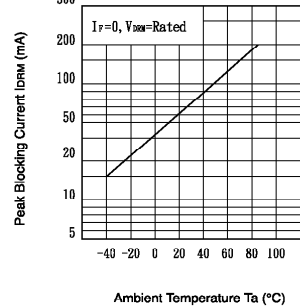
**Fig.6 Forward Current vs. Forward Voltage**



**Fig.7 On-State Characteristics**



**Fig.8 Leakage with LED off vs. Ambient Temperature**



**Fig.9 Trigger Current vs. Ambient Temperature**

