

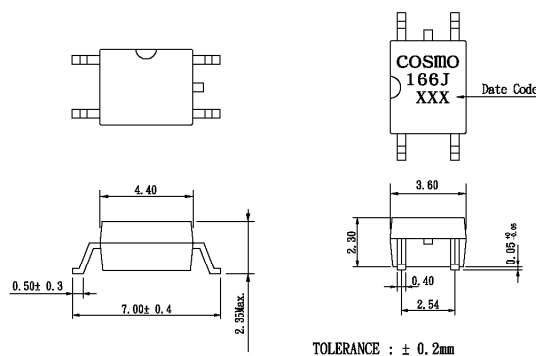
Features

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).

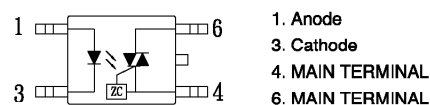
For 115/240 Vac (rms) Application:

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
	Peak forward current (100us)	IFM	1
	Reverse voltage	VR	6
	Power dissipation	Pd	70
Output	Off-State Output Terminal voltage	VDRM	600
	On-State R. M. S. Current	IT(RMS)	70
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	ITSM	1
	Power dissipation	Pd	150
Total power dissipation		Ptot	200
Isolation voltage 1 minute		Viso	2500
Operating temperature		Topr	-40 to +100
Storage temperature		Tstg	-50 to +125
Soldering temperature 10 second		Tsol	260

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=600V	—	—	1.0	μA
	ON-State Voltage	ITM=70mA	—	1.6	2.8	V
Transfer characteristics	Holding Current	IH	—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	dV/dt	600	—	—	V/μS
	Isolation resistance	Riso	5x10 ¹⁰	10 ¹¹	—	ohm
	Minimum trigger current	IFT	—	5	10	mA
	Inhibit Voltage (MT2 Voltage above which device not trigger.)	VINH	—	—	50	V
	Leakage in Inhibited State	IDRM2	—	—	600	μA

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

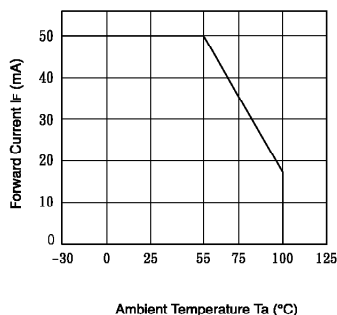


Fig.2 Diode Power Dissipation vs. Ambient Temperature

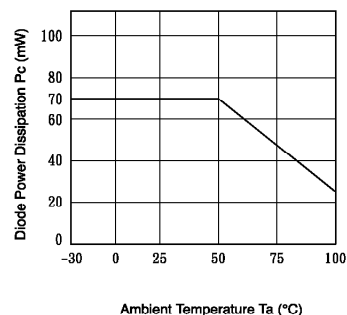


Fig.3 On-State R. M. S. Current vs. Ambient Temperature

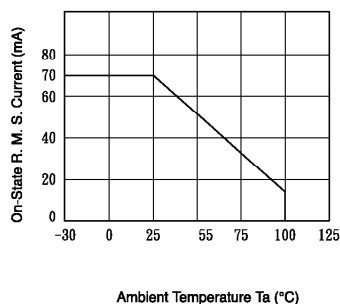


Fig.4 Total Power Dissipation vs. Ambient Temperature

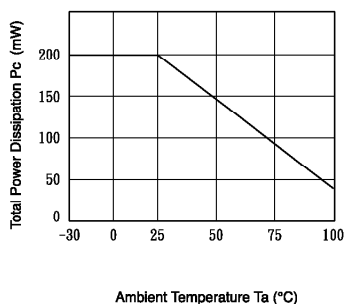


Fig.5 Peak Forward Current vs. Duty Ratio

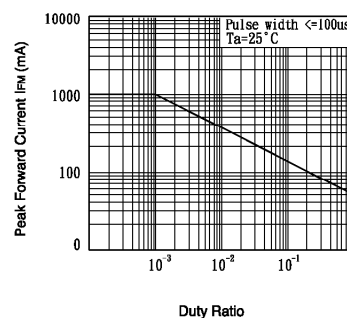


Fig.6 Forward Current vs. Forward Voltage

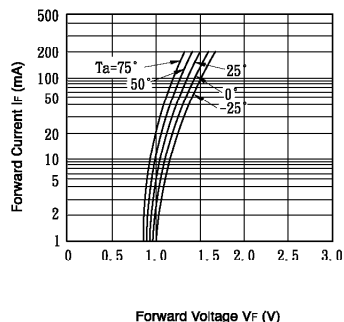


Fig.7 On-State Characteristics

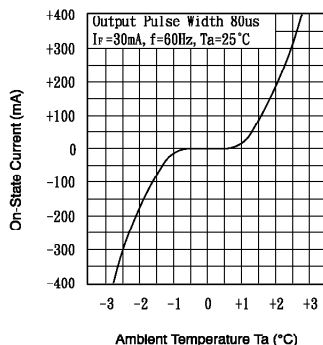


Fig.8 Leakage with LED off vs. Ambient Temperature

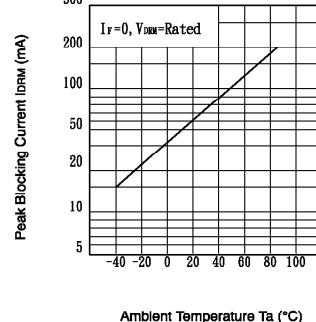


Fig.9 Trigger Current vs. Ambient Temperature

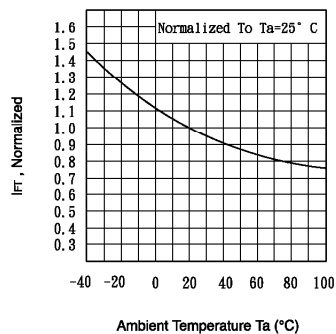


Fig.10 Inhibit Voltage vs. Ambient Temperature

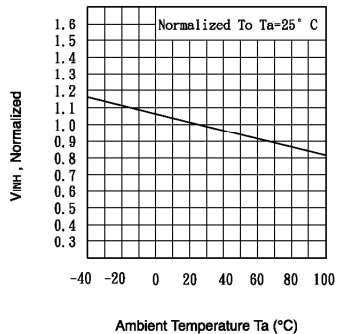


Fig.11 IORM2, Leakage in Inhibit vs. Ambient Temperature

