

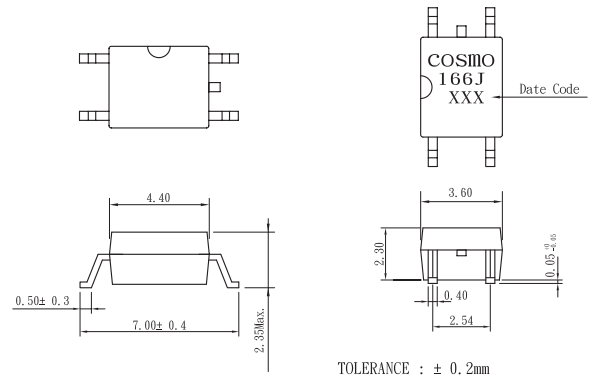
Features

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).

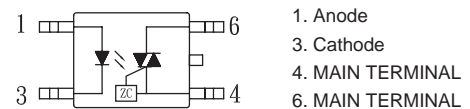
For 115/240 Vac (rms) Application:

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	600 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	VF		1.2	1.4	V
	Peak forward voltage	VFM			3.5	V
	Reverse Leakage Current	IR	VR=5V			10 μA
Output	Peak Blocking Current	IDRM			1.0	nA
	ON-State Voltage	VTM	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	VDRM= (1/ 2) *Rated	600	旻	V/ μS
	Isolation resistance	Riso	DC500V	5x10 ¹⁰	10 ¹¹	ohm
	Minimum trigger current	IFT	Main Terminal Voltage=3V		5	10 mA
	Inhibit Voltage (MT2 Voltage above which device not trigger.)	VINH	IF=Rated IFT			50 V
Leakage in Inhibited State	IDRM2	IF=Rated IFT, VT=Rated VDRM	旻		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

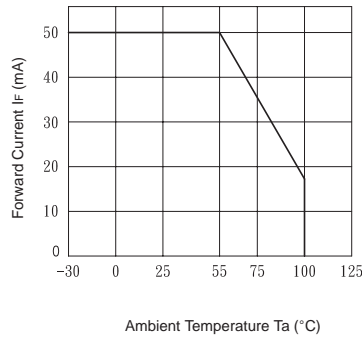


Fig.2 Diode Power Dissipation vs. Ambient Temperature

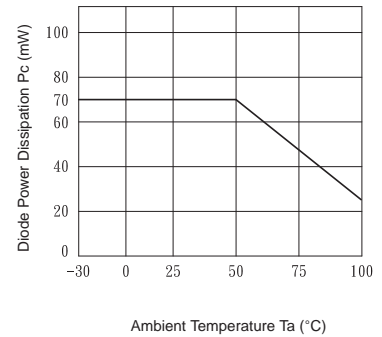


Fig.3 On-State R. M. S. Current vs. Ambient Temperature

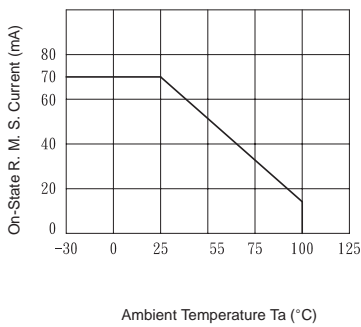


Fig.4 Total Power Dissipation vs. Ambient Temperature

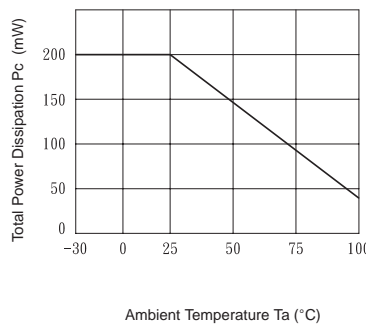


Fig.5 Peak Forward Current vs. Duty Ratio

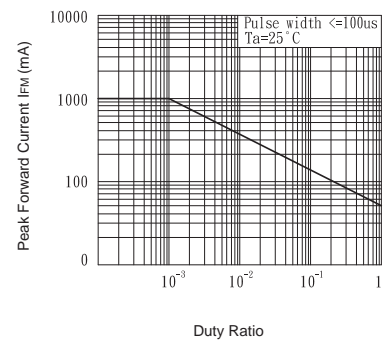


Fig.6 Forward Current vs. Forward Voltage

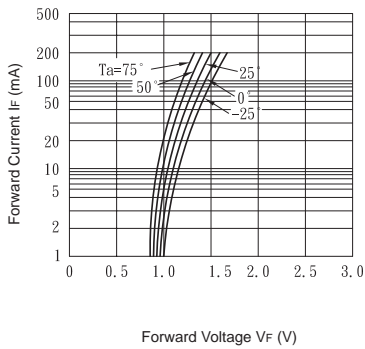


Fig.7 On-State Characteristics

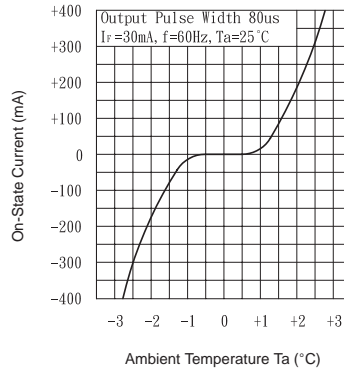


Fig.8 Leakage with LED off vs. Ambient Temperature

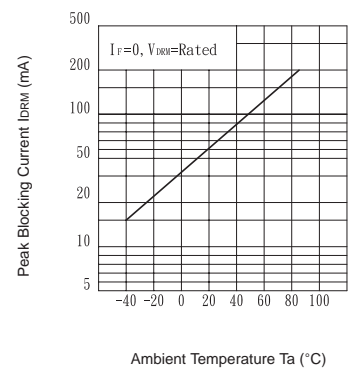


Fig.9 Trigger Current vs. Ambient Temperature

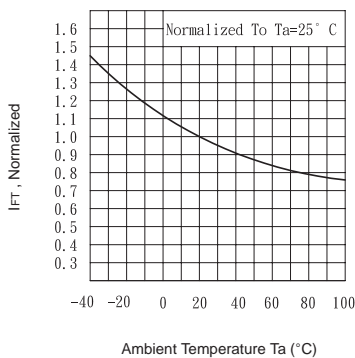


Fig.10 Inhibit Voltage vs. Ambient Temperature

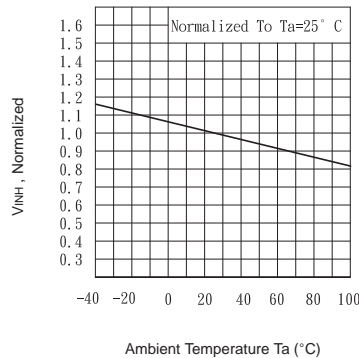


Fig.11 IDRM2, Leakage in Inhibit vs. Ambient Temperature

