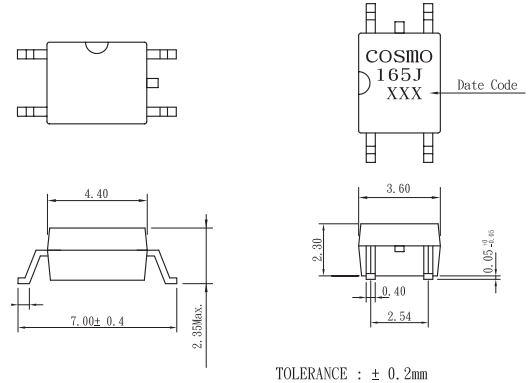


Features

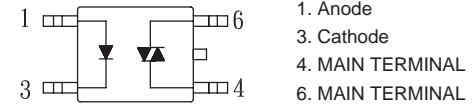
1. Opaque type, mini-flat package.
2. Subminiature type
(The volume is smaller than that of our conventional DIP type by as far as 30%)
3. Isolation voltage between input and output (Viso:2500Vrms).

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.



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	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	nA
	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	旆		V/ µS
	Isolation resistance	DC500V	5x10 ¹⁰	10 ¹¹		ohm
	Minimum trigger current	Main Terminal Voltage=3V		5	10	mA
	Turn-on time	VD=6V, RL=100 ohm, IF=20mA		旆	100	µS

Classification table of Trigger LED current is shown below.

($T_a=25^{\circ}\text{C}$)

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

Fig.1 Forward Current vs. Ambient Temperature

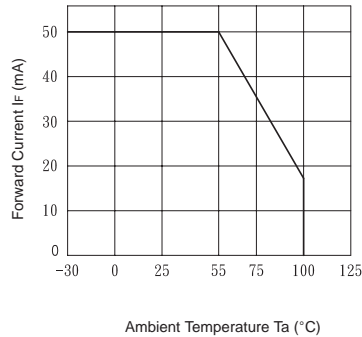


Fig.2 Diode Power Dissipation vs. Ambient Temperature

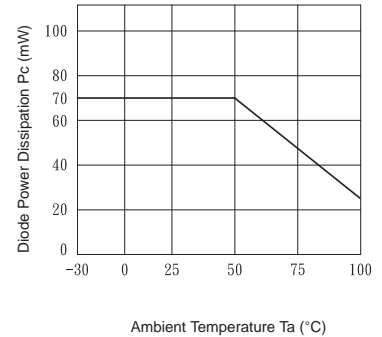


Fig.3 On-State R. M. S. Current vs. Ambient Temperature

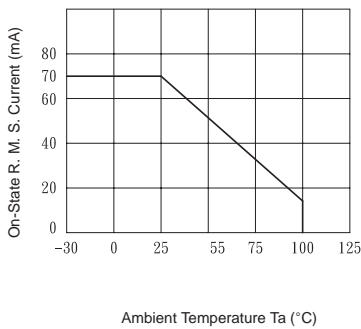


Fig.4 Total Power Dissipation vs. Ambient Temperature

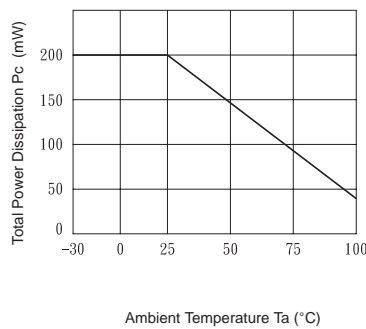


Fig.5 Peak Forward Current vs. Duty Ratio

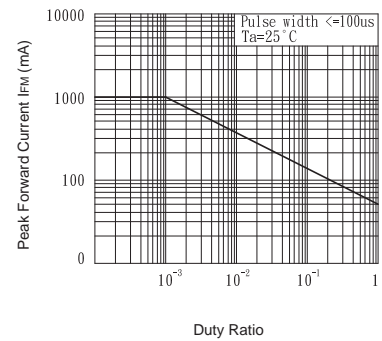


Fig.6 Forward Current vs. Forward Voltage

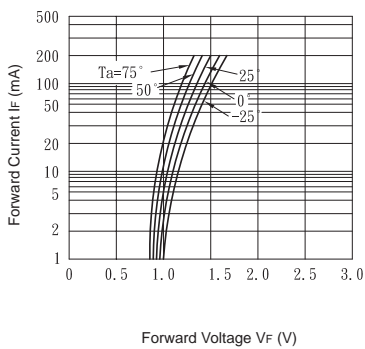


Fig.7 On-State Characteristics

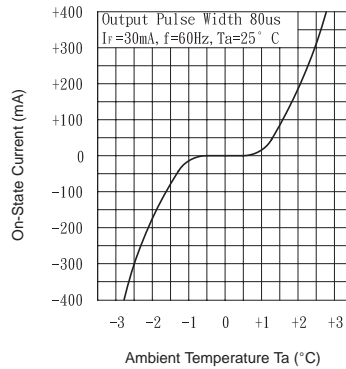


Fig.8 Leakage with LED off vs. Ambient Temperature

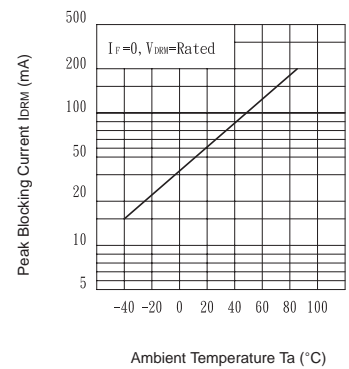


Fig.9 Trigger Current vs. Ambient Temperature

