

PRODUCT SPECIFICATION

DATE: 03/17/2003

COSMO ELECTRONICS CORPORATION	Photocoupler : KTLP260J	NO. 61P43004	REV.
		SHEET 1 OF 6	1

Mini-flat package
Optoisolators Triac Driver Output
(600V Volts Peak)

● 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%)
4. Isolation voltage between input and output (Viso:3000Vrms).

● For 115/240 Vac(rms) Application:

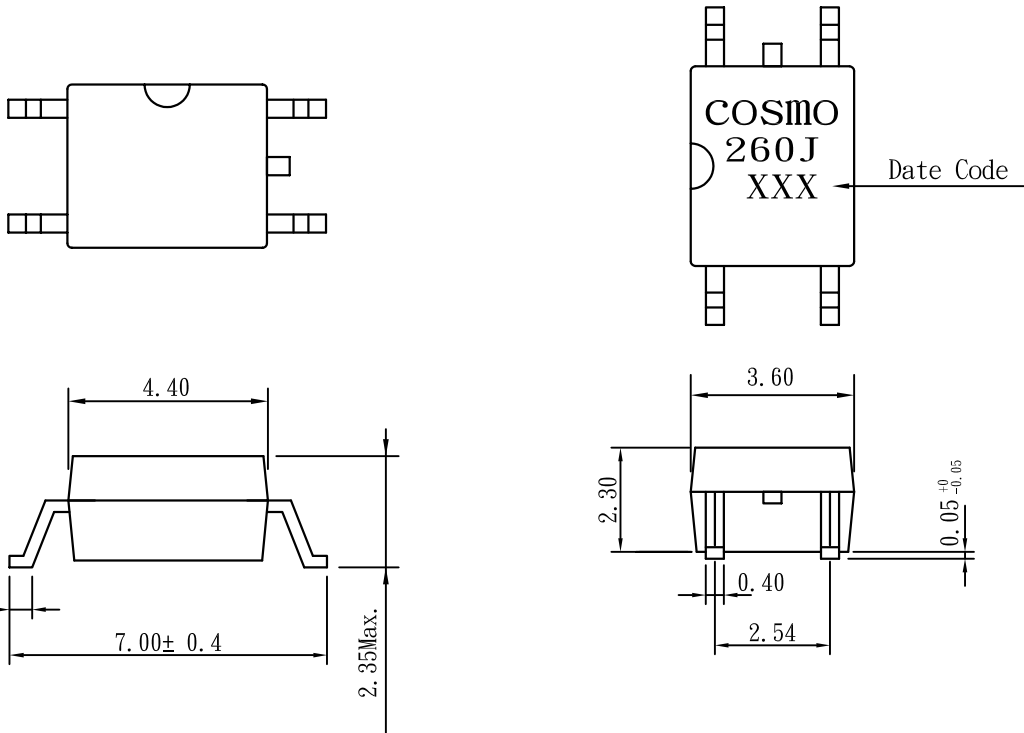
1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E. M. Contactors.
7. AC Motor Staters.
8. Solid State Relays.
9. Programmable controllers.

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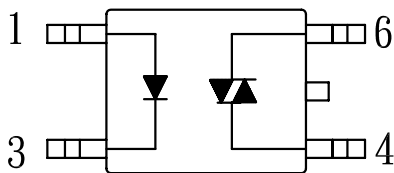
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1. OUTSIDE DIMENSION : UNIT(mm)



TOLERANCE : ± 0.2mm

2. SCHEMATIC : TOP VIEW



1. Anode
3. Cathode
4. MAIN TERMINAL
6. MAIN TERMINAL

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• 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	3000	Vrms
	Operating temperature	Topr	-40 to +100	° C
	Storage temperature	Tstg	-50 to +125	° C
	Soldering temperature 10 seconds	Tsol	260	° C

• Electro-optical Characteristics

(Ta=25° C)

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF	IF=10mA	-	1.2	1.4	V
	Peak forward voltage	VFM	IFM=0.5A	-	-	3.5	V
	Reverse Leakage Current	IR	VR=5V	-	-	10	uA
Output	Peak Blocking Current	IDRM	VDRM=600V	-	-	1.0	uA
	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	100	500	-	V/uS
	Isolation resistance	Riso	DC500V	5x10 ¹⁰	10 ¹¹	-	ohm
	Minimum trigger current	IFT	Main Terminal Voltage=3V	-	5	10	mA
	Turn-on time	Ton	Vp=6v, RL=100 ohm, IF=20mA	-	-	100	uS

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

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Fig.1 Forward Current vs. Ambient Temperature

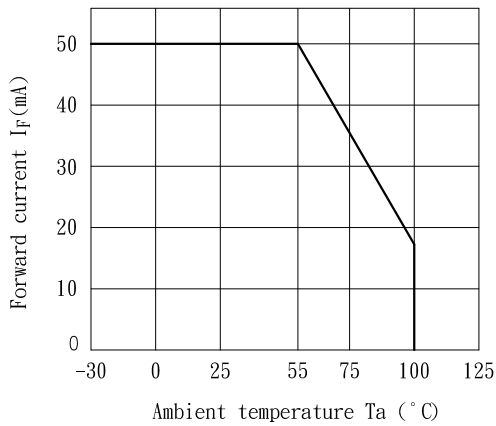


Fig.2 Diode Power Dissipation vs. Ambient Temperature

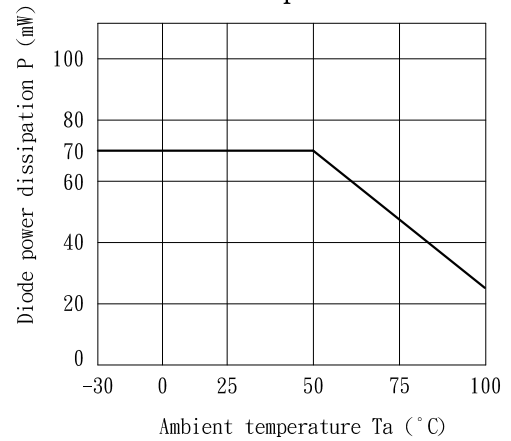


Fig.3 On-State R. M. S. Current vs. Ambient Temperature

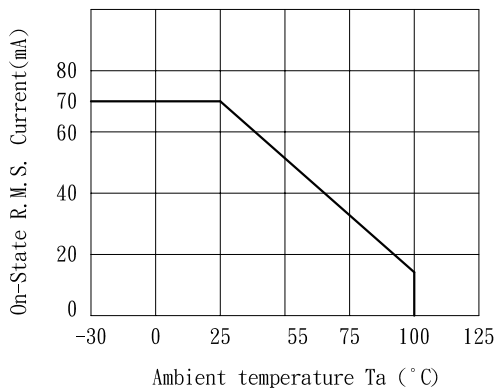


Fig.4 Total Power Dissipation vs. Ambient Temperature

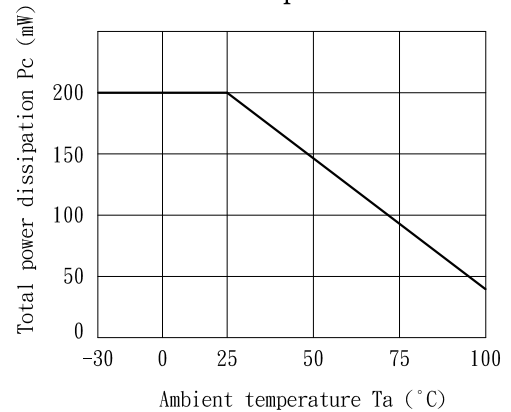


Fig.5 Peak Forward Current vs. Duty Ratio

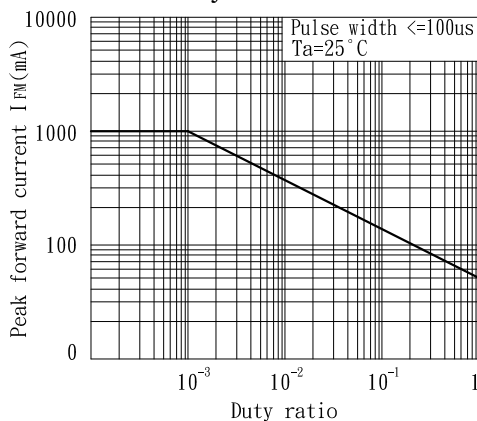
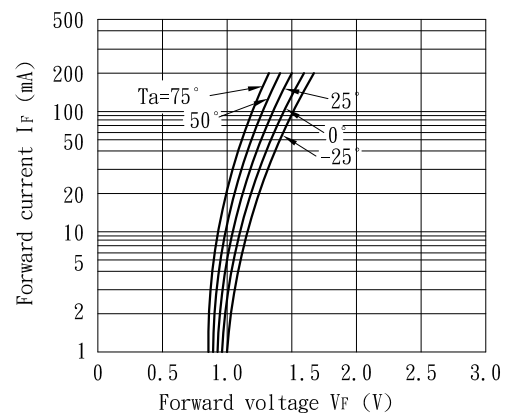


Fig.6 Forward Current vs. Forward Voltage



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Fig. 7 On-State Characteristics

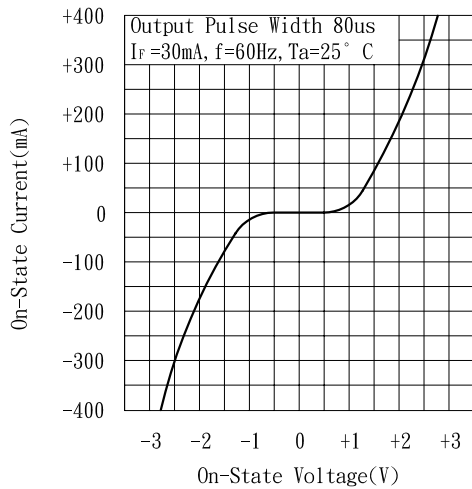


Fig. 8 Leakage with LED off vs. Ambient Temperature

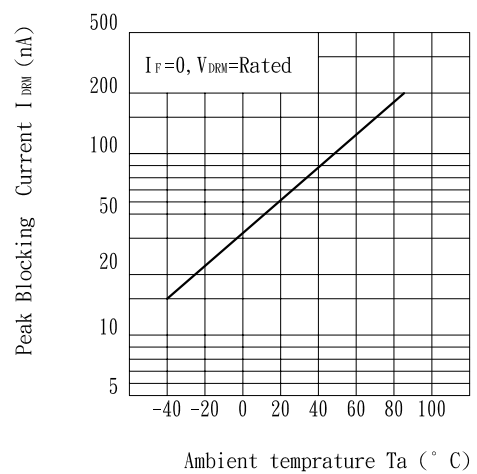
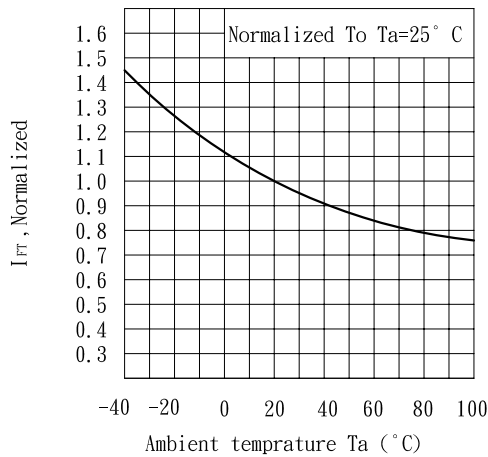


Fig. 9 Trigger Current vs. Ambient Temperature



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