

COSMO

High Reliability Photocoupler

KTP260J

UL 1577 (File No.E169586) VDE EN60747-5-2 (File No.40009235)

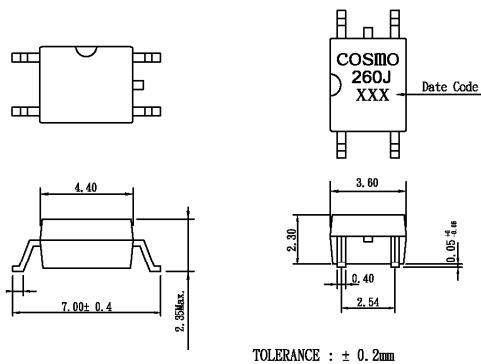
Features

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:3000Vrms).

For 115/240 Vac (rms) Application:

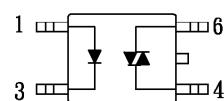
1. Solenoid/Valve Controls.
2. Lighting Controls.
3. Static Power Switches.
4. AC Motor Drives.
5. Temperature Controls.
6. E.M. Contactors.
7. AC Motor Stators.
8. Solid State Relays.
9. Programmable controllers.

Outside Dimension:Unit (mm)



TOLERANCE : ± 0.2mm

Schematic:Top View



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

Absolute Maximum Ratings

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	I _F	50	mA
	Peak forward current (100us)	I _{FM}	1	A
	Reverse voltage	V _R	6	V
	Power dissipation	P _D	70	mW
Output	Off-State Output Terminal voltage	V _{DRM}	600	Vpeak
	On-State R. M. S. Current	I _{T(RMS)}	70	mA
	Peak Repetitive Surge Current (PW=10ms, DC 10%)	I _{TSM}	1	A
	Power dissipation	P _D	150	mW
	Total power dissipation	P _{Tot}	200	mW
	Isolation voltage 1 minute	V _{iso}	3000	Vrms
	Operating temperature	T _{opr}	-40 to +100	°C
	Storage temperature	T _{tsg}	-50 to +125	°C
	Soldering temperature 10 second	T _{sol}	260	°C

Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V _F	I _F =10mA	—	1.2	1.4	V
	Peak forward voltage	V _{FM}	I _{FM} =0.5A	—	—	3.5	V
	Reverse Leakage Current	I _R	V _R =5V	—	—	10	μA
Output	Peak Blocking Current	I _{DRM}	V _{DRM} =600V	—	—	1.0	μA
	ON-State Voltage	V _{TM}	I _{TM} =70mA	—	1.6	2.8	V
Transfer characteristics	Holding Current	I _H		—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	dV/dt	V _{DRM} =(1/√2)*Rated	600			V/μS
	Isolation resistance	R _{iso}	DC500V	5x10 ¹⁰	10 ¹¹	—	ohm
	Minimum trigger current	I _{FT}	Main Terminal Voltage=3V	—	5	10	mA
	Turn-on time	T _{on}	V _D =6V, R _L =100 ohm, I _F =20mA	—	—	100	μS

