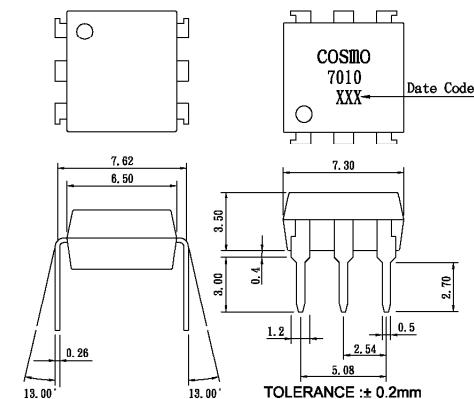
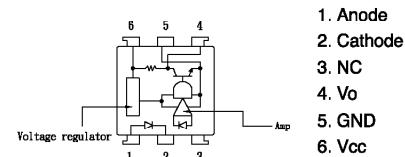


Features

1. High sensitivity.
2. TTL and LSTTL compatible output.
3. Operating supply voltage range.
(Vcc 4.5V to 17V)
4. Output form pull-up resistor built-in type.
5. Low output current dissipation.
(IcCL:MAX. 3.8mA)
6. High isolation voltage between input and output
(Viso:5000Vrms).
7. Available package : DIP/ SMD/ H.

Applications

1. Computer terminals.
2. High speed line receivers.
3. Interfaces with various data transmission equipment.
4. Switching regulators.

Outside Dimension : Unit (mm)**Schematic : Top View****Absolute Maximum Ratings**

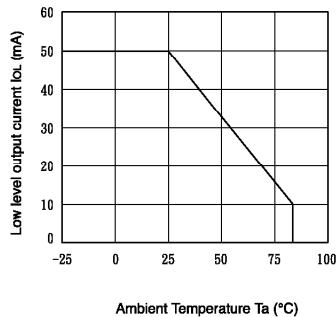
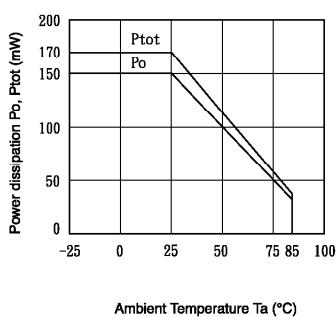
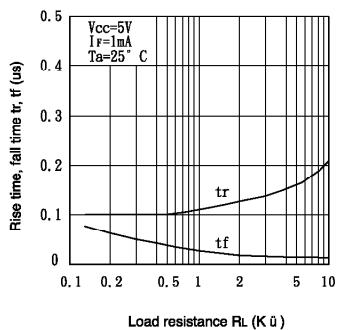
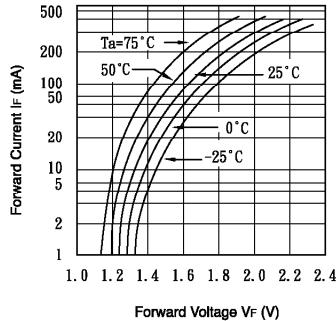
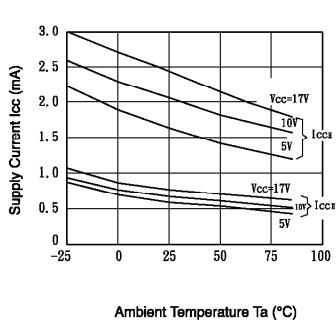
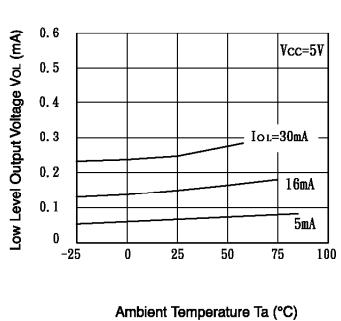
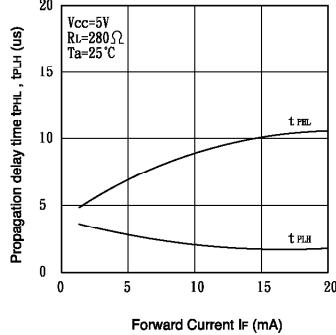
(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	IF	10	mA
	Peak forward current	IFM	1	A
	Reverse voltage	VR	6	V
	Power dissipation	Pd	70	mW
Output	Supply voltage	Vcc	-0.5 to 17	V
	Output current	Io	50	mA
	Power dissipation	Pd	150	mW
	Total power dissipation	Ptot	170	mW
	Isolation voltage 1 minute	Viso	5000	Vrms
	Operating temperature	Topr	-25 to +85	°C
	Storage temperature	Tstg	-40 to +125	°C
Soldering temperature		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 current	IR	VR = 4V	—	—	10	uA
	Terminal capacitance	Ct	V=0, f=1kHz	—	30	—	pF
Output	Operating supply voltage	Vcc		4.5	—	17	V
	Low level output voltage	VOl	IoL = 16mA, Vcc = 5V, IF = 0	—	0.15	0.4	V
	High level output voltage	VOH	Vcc = 5V, IF = 4mA	3.5	—	—	V
	Low level supply current	IcCL	Vcc = 5V, IF = 0	—	1.7	3.8	mA
	High level supply current	IcCH	Vcc = 5V, IF = 1mA	—	0.7	2.2	mA
Transfer characteristics	"High-Low" Threshold input current	IFHL	Vcc = 5V, RL = 280ohm	0.1	0.4	—	mA
	"Low-High" Threshold input current	IFLH	Vcc = 5V, RL = 280ohm	—	0.5	1.0	mA
	Hysteresis	IFHL / IFLH	Vcc = 5V, RL = 280ohm	—	0.8	—	—
	Isolation resistance	Riso	Ta = 25°C, DC500V	5x10 ¹⁰	10 ¹¹	—	ohm
	"High-Low" propagation delay time	tPHL		—	5	15	us
	"Low-High" propagation delay time	tPLH	Ta = 25°C, Vcc = 5V,	—	3	9	
	Fall time	tf	IF = 1mA, RL = 280ohm	—	0.05	0.5	
	Rise time	tr		—	0.1	0.5	

Fig.1 Low Level Output Current vs. Ambient Temperature**Fig.2** Power Dissipation vs. Ambient Temperature**Fig.3** Rise Time, Fall Time vs. Load Resistance**Fig.4** Forward Current vs. Forward Voltage**Fig.5** Supply Current vs. Ambient Temperature**Fig.6** Low Level Output Voltage vs. Ambient Temperature**Fig.7** Propagation Delay Time vs. Forward Current**Fig.8** Low Level Output Voltage vs. Low Level Output Current