

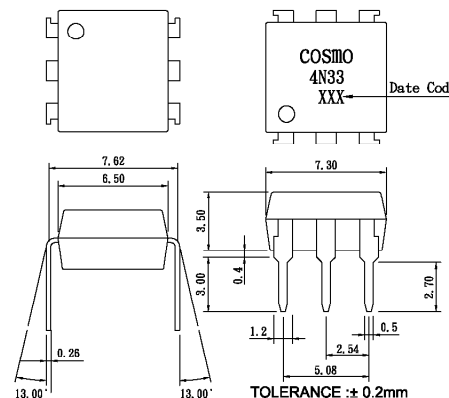
Features

1. High current transfer ratio
(CTR:MIN.500% at $I_F=1mA$, $V_{ce}=2V$)
2. High isolation voltage between input and output
(Viso:5000Vrms).
3. Compact dual-in-line package.
4. Available package : DIP/ SMD/ H.

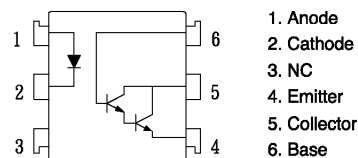
Applications

1. System appliances, measuring instruments.
2. Industrial robots.
3. Copiers, automatic vending machines, facsimiles.
4. Signal transmission between circuits of different potentials and impedances.
5. Telephone sets.
6. Copiers, tacsimiles.
7. Interface with various power supply circuits, power distribution boards.
8. Numerical control machines.

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	IFM	1 A
	Reverse voltage	VR	6 V
	Power dissipation	PD	70 mW
Output	Collector-emitter voltage	VCEO	30 V
	Collector-base voltage	VCBO	30 V
	Emitter-base voltage	VEBO	6 V
	Collector current	IC	150 mA
	Collector power dissipation	PC	200 mW
Total power dissipation	Ptot	200 mW	
Isolation voltage 1 minute	Viso	5000	Vrms
Operating temperature	Topr	-30 to +100	°C
Storage temperature	Tstg	-55 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	$I_F=10mA$	—	1.2	1.4	V
	Peak forward voltage	$I_{FM}=0.5A$	—	—	3.5	V
	Reverse current	$V_R=4V$	—	—	10	uA
	Terminal capacitance	$V=0, f=1kHz$	—	30	—	pF
Output	Collector dark current	$V_{CE}=10V, I_F=0$	—	—	0.1	uA
Transfer characteristics	Current transfer ratio	$I_F=1mA, V_{CE}=2V$	500	—	—	%
	Collector-emitter saturation voltage	$I_F=8mA, I_C=2mA$	—	—	1.0	V
	Isolation resistance	DC500V	5×10^{10}	—	—	ohm
	Floating capacitance	$V=0, f=1MHz$	—	0.6	1.0	pF
	Cut-off frequency	$V_{CC}=5V, I_C=2mA, R_L=100ohm$	—	7	—	kHz
	Response time (Rise)	$V_{CE}=10V, I_C=50mA, R_L=100ohm$	—	5	40	us
	Response time (Fall)		—	60	100	us

