

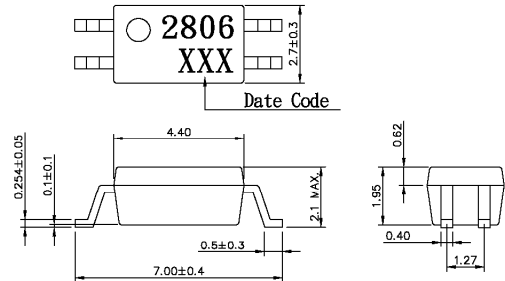
Features

1. High isolation voltage (BV=2500 Vrms)
2. Small and thin package (4pin SOP , Pin pitch 1.27 mm)
3. AC input response
4. High current transfer ratio
(CTR=2000% TYP. @ IF=1mA, VCE =2V)

Applications

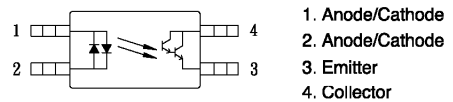
1. Programmable logic controllers
2. Measuring instruments
3. Hybrid IC

Outside Dimension:Unit (mm)



TOLERANCE : ± 0.2mm

Schematic:Top View



Absolute Maximum Ratings

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current (DC)	IF	± 50	mA
	Power dissipation derating	Pd/°C	0.6	mW / °C
	Power dissipation	Pd	60	mW
	Peak forward current *1	IFP	± 1	A
Output	Collector-emitter voltage	VCEO	40	V
	Emitter-collector voltage	VECO	6	V
	Collector current	IC	90	mA
	Power dissipation derating	Pc/°C	1.2	mW / °C
	Total power dissipation	Pc	120	mW
Isolation voltage *2		Viso	2500	Vrms
Operating temperature		Topr	-30 to +100	°C
Storage temperature		Tstg	-55 to +150	°C

*1 PW=100 μs, duty cycle=1%

*2 AC voltage for 1 minute at TA=25°C, RH=60% between input and output

Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	VF	IF=± 5mA	—	1.1	1.4	V
	Terminal capacitance	Ct	V=0V, f=1.0MHz	—	60	—	pF
Output	Collector-emitter dark current	ICEO	VCE=40V, IF=0mA	—	—	400	nA
Transfer characteristics	Current transfer ratio (IC / IF)	CTR	IF=± 1mA, VCE=2V	200	2000	—	%
	CTR ratio *1	CTR1/CTR2	IF=1mA, VCE=2V	0.3	1.0	3.0	—
	Collector saturation voltage	VCE (sat)	IF=± 1mA, IC=2mA	—	—	1.0	V
	Isolation resistance	Viso	VI=0=500VDC	5X10 ¹⁰	10 ¹¹	—	ohm
	Floating capacitance	Cf	V=0V, f=1.0MHZ	—	0.4	—	pF
	Response time (Rise)*2	tr	VCE=5V, IC=2mA, RL=100ohm	—	200	—	μS
	Response time (Fall)*2	tf		—	200	—	μS

