

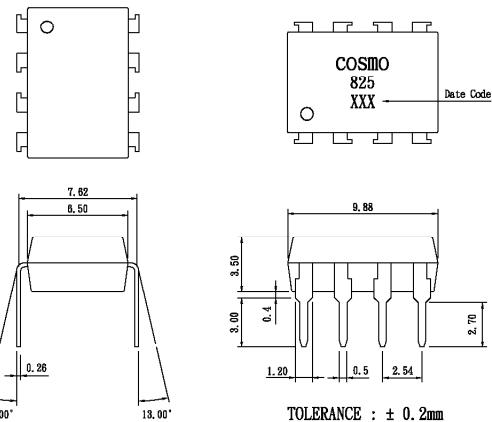
Features

1. High current transfer ratio
(CTR:MIN.600% at IF=1mA, Vce=2V)
2. High isolation voltage between input and output
(Viso:5000Vrms).
3. Compact dual-in-line package.

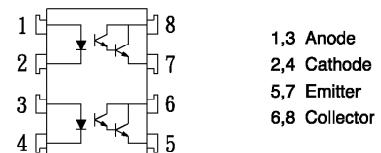
Applications

1. System appliances, measuring instruments.
2. Industrial robots.
3. Copiers, automatic vending machines.
4. Signal transmission between circuits of different potentials and impedances.

Outside Dimension:Unit (mm)



Schematic:Top View



Absolute Maximum Ratings

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	35	V
	Emitter-collector voltage	VECO	6	V
	Collector current	Ic	80	mA
	Collector power dissipation	Pc	150	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	VF	IF=20mA	—	1.2	1.4	V
	Peak forward voltage	VFM	IFM=0.5A	—	—	3.0	V
	Reverse current	IR	VR=4V	—	—	10	μA
	Terminal capacitance	Ct	V=0, f=1kHz	—	30	250	pF
Output	Collector dark current	ICEO	VCE=10V, If=0	—	—	1.0	μA
Transfer characteristics	Current transfer ratio	CTR	IF=1mA, Vce=2V	600	—	7500	%
	Collector-emitter saturation voltage	Vce(sat)	IF=20mA, Ic=5mA	—	0.8	1.0	V
	Isolation resistance	Riso	DC500V, 40 to 60% RH	5X10 ¹⁰	—	—	ohm
	Floating capacitance	Cf	V=0, f=1MHz	—	0.6	1.0	pF
	Cut-off frequency	fc	Vcc=2V, Ic=20mA, RL=100ohm	1	6	—	kHz
	Response time (Rise)	tr	Vce=2V, Ic=20mA, RL=100ohm	—	80	300	μs
	Response time (Fall)	tf		—	72	250	μs

