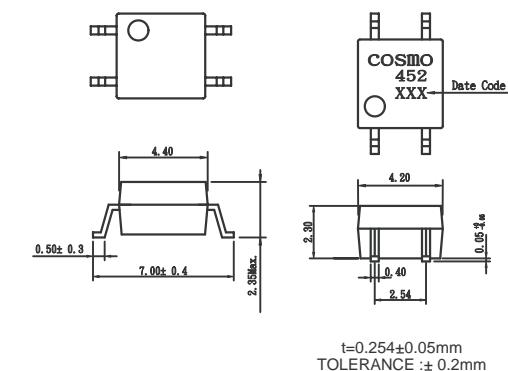
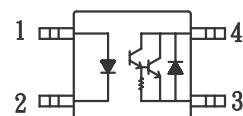


**Features**

1. Mini-flat package.
2. High collector-emitter voltage  
(V<sub>CEO</sub>:300V)
3. High current transfer ratio  
(CTR:MIN.1000% at I<sub>F</sub>=1mA, V<sub>CE</sub>:2V )
4. High isolation voltage between input and output  
(Viso:3750Vrms).

**Applications**

1. Telephone sets.
2. Copiers, facsimiles.
3. Interfaces with various power supply circuits, power distribution boards.
4. Hybrid substrates which require high density mounting.

**Outside Dimension : Unit (mm)****Schematic : Top View**

1. Anode
2. Cathode
3. Emitter
4. Collector

**Absolute Maximum Ratings**

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	I <sub>F</sub>	50	mA
	Peak forward current	I <sub>FM</sub>	1	A
	Reverse voltage	V <sub>R</sub>	6	V
	Power dissipation	P	70	mW
Output	Collector-emitter voltage	V <sub>CEO</sub>	300	V
	Emitter-collector voltage	V <sub>EKO</sub>	0.1	V
	Collector current	I <sub>C</sub>	150	mA
	Collector power dissipation	P <sub>C</sub>	150	mW
	Total power dissipation	P <sub>tot</sub>	170	mW
	Isolation voltage 1 minute	Viso	3750	Vrms
	Operating temperature	T <sub>opr</sub>	-30 to +100	°C
	Storage temperature	T <sub>stg</sub>	-40 to +125	°C
	Soldering temperature 10 seconds	T <sub>sol</sub>	260	°C

**Electro-optical Characteristics**

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	—	1.2	1.4	V
	Reverse current	I <sub>R</sub>	V <sub>R</sub> =4V	—	—	10	uA
	Terminal capacitance	C <sub>t</sub>	V=0, f=1kHz	—	30	—	pF
Output	Collector dark current	I <sub>CEO</sub>	V <sub>CE</sub> =200V, I <sub>F</sub> =0	—	—	1	uA
	Collector-emitter breakdown voltage	BV <sub>CEO</sub>	I <sub>C</sub> =0.1mA, I <sub>F</sub> =0	300	—	—	V
Transfer characteristics	Current transfer ratio	CTR	I <sub>F</sub> =1mA, V <sub>CE</sub> =2V	1000	—	—	%
	Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>F</sub> =20mA, I <sub>C</sub> =100mA	—	—	1.5	V
	Isolation resistance	R <sub>iso</sub>	DC500V, 40 TO 60%RH	5X10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
	Floating capacitance	C <sub>f</sub>	V=0, f=1MHz	—	0.6	1.0	pF
	Response time (Rise)	t <sub>r</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =20mA, R <sub>L</sub> =100ohm	—	100	300	us
	Response time (Fall)	t <sub>f</sub>		—	20	100	us

