

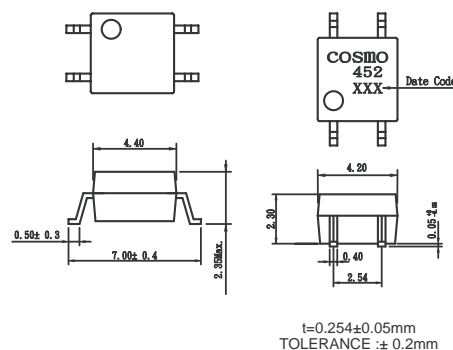
Features

1. Mini-flat package.
2. High collector-emitter voltage
($V_{CE0}:300V$)
3. High current transfer ratio
($CTR:MIN.1000\%$ at $I_F=1mA$, $V_{CE}:2V$)
4. High isolation voltage between input and output
($Viso:3750Vrms$).

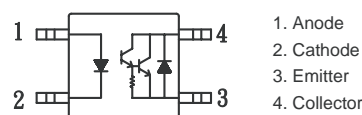
Applications

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



Absolute Maximum Ratings

($T_a=25^\circ C$)

	Parameter	Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Peak forward current	I_{FM}	1	A
	Reverse voltage	V_R	6	V
	Power dissipation	P	70	mW
Output	Collector-emitter voltage	V_{CEO}	300	V
	Emitter-collector voltage	V_{ECO}	0.1	V
	Collector current	I_C	150	mA
	Collector power dissipation	P_C	150	mW
	Total power dissipation	P_{tot}	170	mW
	Isolation voltage 1 minute	$Viso$	3750	V_{rms}
	Operating temperature	T_{opr}	-30 to +100	$^\circ C$
	Storage temperature	T_{stg}	-40 to +125	$^\circ C$
	Soldering temperature 10 seconds	T_{sol}	260	$^\circ C$

Electro-optical Characteristics

($T_a=25^\circ C$)

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V_F	$I_F=10mA$	—	1.2	1.4	V
	Reverse current	I_R	$V_R=4V$	—	—	10	μA
	Terminal capacitance	C_t	$V=0$, $f=1kHz$	—	30	—	pF
Output	Collector dark current	I_{CEO}	$V_{CE}=200V$, $I_F=0$	—	—	1	μA
	Collector-emitter breakdown voltage	BV_{CEO}	$I_C=0.1mA$, $I_F=0$	300	—	—	V
Transfer characteristics	Current transfer ratio	CTR	$I_F=1mA$, $V_{CE}=2V$	1000	—	—	%
	Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_F=20mA$, $I_C=100mA$	—	—	1.5	V
	Isolation resistance	R_{iso}	DC500V, 40 TO 60%RH	5×10^{10}	10^{11}	—	ohm
	Floating capacitance	C_f	$V=0$, $f=1MHZ$	—	0.6	1.0	pF
	Response time (Rise)	t_r	$V_{CE}=2V$, $I_C=20mA$, $R_L=100ohm$	—	100	300	μs
	Response time (Fall)	t_f		—	20	100	μs

