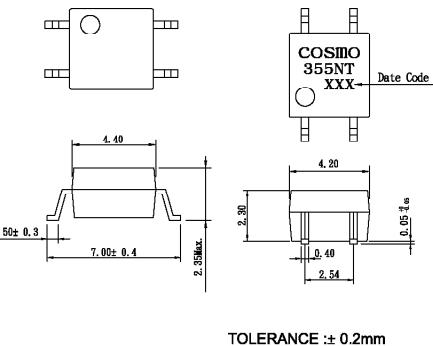
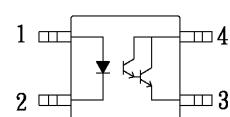


Features

1. High current transfer ratio
(CTR:MIN.600% at $I_F=1\text{mA}$, $V_{ce}=2\text{V}$)
2. High isolation voltage between input and output
(Viso:3750Vrms).
3. Mini-flat package.

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, facsimiles.
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	I_F	50	mA
	Peak forward current	I_{FM}	1	V
	Reverse voltage	V_R	6	V
	Power dissipation	P_d	70	mW
Output	Collector-emitter voltage	V_{CEO}	35	V
	Emitter-collector voltage	V_{ECO}	5	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	Vrms
	Operating temperature	T_{opr}	-30 to +100	°C
	Storage temperature	T_{stg}	-40 to +125	°C
Soldering temperature 10 second		T_{sol}	260	°C

Electro-optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	—	1.2	1.4	V
	Peak forward voltage	V_{FM}	$I_F=0.5\text{A}$	—	—	3.5	V
	Reverse current	I_R	$V_R=4\text{V}$	—	—	10	uA
	Terminal capacitance	C_t	$V=0, f=1\text{kHz}$	—	30	—	pF
Output	Collector dark current	I_{CEO}	$V_{CE}=10\text{V}, I_F=0$	—	—	1.0	uA
Transfer characteristics	Current transfer ratio	CTR	$I_F=1\text{mA}, V_{ce}=2\text{V}$	600	1600	7500	%
	Collector-emitter saturation voltage	$V_{CE}(\text{sat})$	$I_F=20\text{mA}, I_C=1\text{mA}$	—	—	1.0	V
	Isolation resistance	R_{iso}	DC500V	5×10^{10}	—	—	ohm
	Floating capacitance	C_f	$V=0, f=1\text{MHz}$	—	0.6	1.0	pF
	Cut-off frequency	f_c	$V_{cc}=5\text{V}, I_C=2\text{mA}, R_L=100\text{ohm}$	—	7	—	KHZ
	Response time (Rise)	t_r	$V_{ce}=2\text{V}, I_C=2\text{mA}, R_L=100\text{ohm}$	—	60	300	us
	Response time (Fall)	t_f		—	53	250	us

