



Features

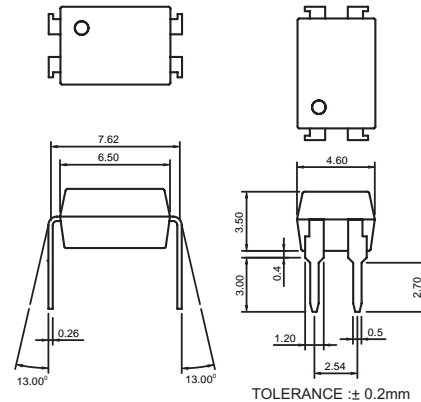
1. Current transfer ratio.
(CTR: MIN. 60% at $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$)
2. High isolation voltage between input and output.
(Viso: 5000V_{RMS})
3. Compact dual-in-line package.
4. AC input.
5. Available package types: DIP(shown)/ SMD / H (Page 150).

Part Numbering System: Page 2. **Part Marking System:** Page 4.

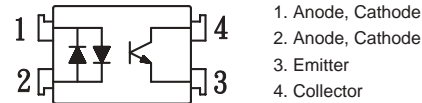
Applications

1. Programmable controller applications for low input photo couplers and high V_{CEO} photo couplers.
2. Telephone sets, telephone exchangers.
3. System appliances, limit switches, sensors thermostats, and transducers, etc.
4. Signal transmission between circuits of different potentials and impedances.

Outside Dimension: Unit (mm)



Schematic: Top View



Absolute Maximum Ratings

($T_a = 25^\circ\text{C}$)

	Parameter	Symbol	Rating	Unit
Input	Forward current	I_F	± 60	mA
	Peak forward current	I_{FM}	± 1	A
	Power dissipation	P_D	70	mW
Output	Collector-emitter voltage	V_{CEO}	60	V
	Emitter-collector voltage	V_{ECO}	6	V
	Collector current	I_C	50	mA
	Collector power dissipation	P_C	150	mW
	Total power dissipation	P_{tot}	200	mW
	Isolation voltage 1 minute	Viso	5000	V _{rms}
	Operating temperature	T_{opr}	-30 to +100	$^\circ\text{C}$
	Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$
	Soldering temperature 10 second	T_{sol}	260	$^\circ\text{C}$

Electro-optical Characteristics

($T_a = 25^\circ\text{C}$)

	Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V_F	$I_F = \pm 20\text{mA}$	—	1.2	1.4	V
	Peak forward voltage	V_{FM}	$I_{FM} = \pm 0.5\text{A}$	—	—	3.0	V
	Terminal capacitance	C_t	$V=0, f=1\text{kHz}$	—	30	—	pF
Output	Collector dark current	I_{CEO}	$V_{CE} = 20\text{V}, I_F = 0$	—	—	0.1	μA
Transfer characteristics	Current transfer ratio	CTR	$I_F = \pm 1\text{mA}, V_{CE} = 5\text{V}$	60	—	600	%
	Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_F = \pm 20\text{mA}, I_C = 1\text{mA}$	—	0.1	0.3	V
	Isolation resistance	Riso	DC500V	5×10^{10}	10^{11}	—	ohm
	Floating capacitance	C_f	$V=0, f=1\text{MHz}$	—	0.6	1.0	pF
	Cut-off frequency	f_c	$V_{CC} = 5\text{V}, I_C = 2\text{mA}, R_L = 100\text{ohm}$	—	80	—	kHz
	Response time (Rise)	t_r	$V_{CE} = 2\text{V}, I_C = 2\text{mA}, R_L = 100\text{ohm}$	—	5	20	μs
	Response time (Fall)	t_f		—	4	20	μs



WPPC-A11064 Series

Classification table of current transfer ratio is shown below.

Model NO.	Rank mark	CTR (%)
A11064	A	60 TO 600
A11064	B	60 TO 300

