

TLP621, TLP621-2, TLP621-4
TLP621X, TLP621-2X, TLP621-4X



ISOCOM

COMPONENTS

HIGH DENSITY MOUNTING PHOTOTRANSISTOR OPTICALLY COUPLED ISOLATORS



APPROVALS

- UL recognised, File No. E91231
Package Code " EE "

'X' SPECIFICATION APPROVALS

- VDE 0884 in 3 available lead forms :
 - STD
 - G form
 - SMD approved to CECC 00802

DESCRIPTION

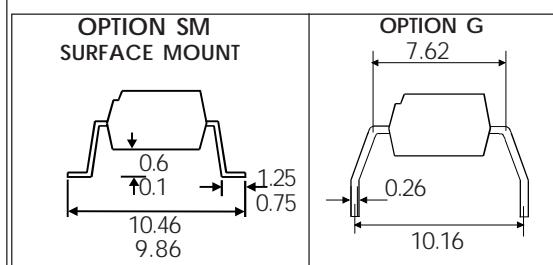
The TLP621, TLP621-2 , TLP621-4 series of optically coupled isolators consist of infrared light emitting diodes and NPN silicon photo transistors in space efficient dual in line plastic packages.

FEATURES

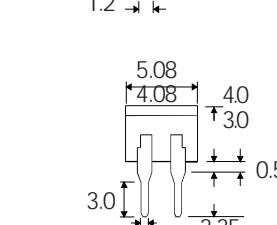
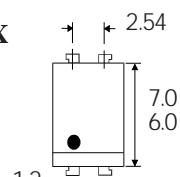
- Options :-
10mm lead spread - add G after part no.
Surface mount - add SM after part no.
Tape&reel - add SMT&R after part no.
- High Current Transfer Ratio (50% min)
- High Isolation Voltage (5.3kV_{RMS}, 7.5kV_{PK})
- High BV_{CBO} (55Vmin)
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

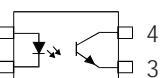
- Computer terminals
- Industrial systems controllers
- Measuring instruments
- Signal transmission between systems of different potentials and impedances



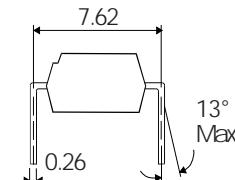
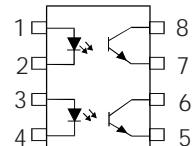
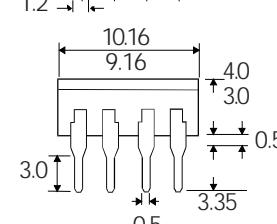
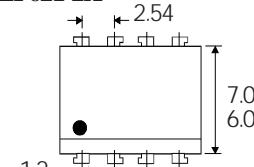
**TLP621
TLP621X**



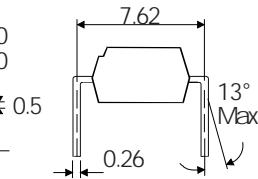
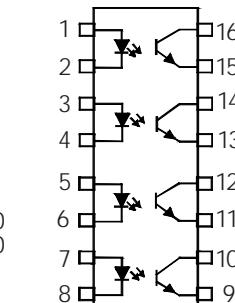
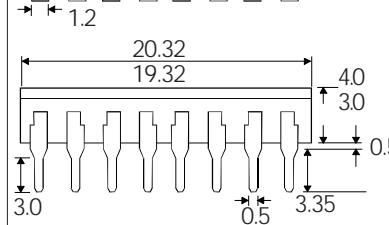
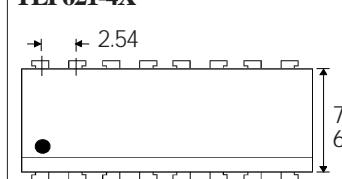
Dimensions in mm



**TLP621-2
TLP621-2X**



**TLP621-4
TLP621-4X**



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ABSOLUTEMAXIMUMRATINGS
(25°C unless otherwise specified)

Storage Temperature	-55°C to +125°C
Operating Temperature	-30°C to +100°C
Lead Soldering Temperature (1/16 inch (1.6mm) from case for 10 secs)	260°C

INPUTDIODE

Forward Current	50mA
Reverse Voltage	5V
Power Dissipation	70mW

OUTPUTTRANSISTOR

Collector-emitter Voltage BV _{CEO}	55V
Emitter-collector Voltage BV _{ECO}	6V
Collector Current	50mA
Power Dissipation	150mW

POWERDISSIPATION

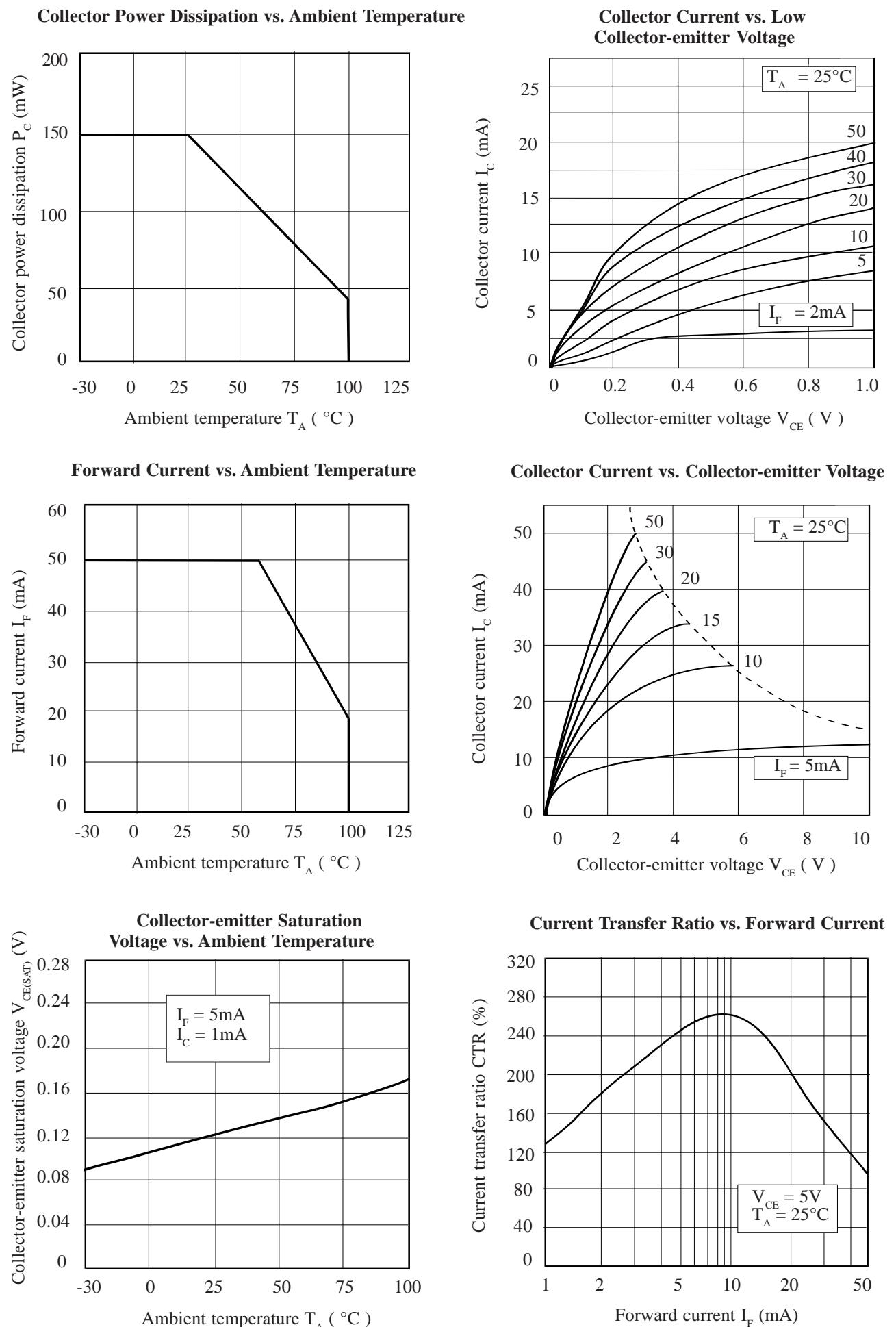
Total Power Dissipation	200mW
(derate linearly 2.67mW/°C above 25°C)	

ELECTRICAL CHARACTERISTICS (T_A = 25°C Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F)	1.0	1.15	1.3	V	I _F = 10mA
	Reverse Current (I _R)			10	µA	V _R = 5V
Output	Collector-emitter Breakdown (BV _{CEO}) (Note 2)	55			V	I _C = 0.5mA
	Emitter-collector Breakdown (BV _{ECO}) Collector-emitter Dark Current (I _{CEO})	6		100	V nA	I _E = 100µA V _{CE} = 24V
Coupled	Current Transfer Ratio (CTR) (Note 2) TLP621, TLP621-2, TLP621-4	50		600	%	5mA I _F , 5V V _{CE}
	CTR selection available GB	100		600	%	5mA I _F , 5VV _{CE}
	BL	200		600	%	5mA I _F , 5VV _{CE}
	GR	100		300	%	5mA I _F , 5VV _{CE}
	Collector-emitter Saturation Voltage V _{CE(SAT)} GB			0.4	V	8mA I _F , 2.4mA I _C
	Input to Output Isolation Voltage V _{ISO}	5300			V _{RMS}	1mA I _F , 0.2mA I _C
		7500			V _{PK}	See note 1
	Input-output Isolation Resistance R _{ISO}	5x10 ¹⁰			Ω	See note 1 V _{IO} = 500V (note 1)
Response Time (Rise), tr Response Time (Fall) Time, tf			4		µs	V _{CE} = 2V, I _C = 2mA, R _L = 100Ω

Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.



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