

TLP620X, TLP620-2X, TLP620-4X
TLP620, TLP620-2, TLP620-4



ISOCOM

COMPONENTS



HIGH DENSITY A.C. INPUT 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

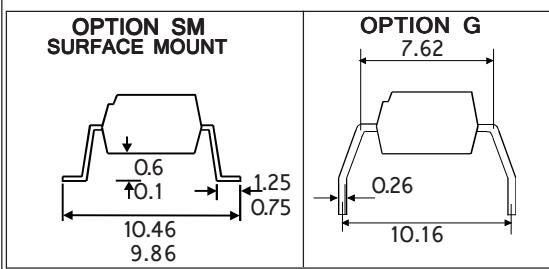
The TLP620, TLP620-2, TLP620-4 series of optically coupled isolators consist of two infrared light emitting diodes connected in inverse parallel and NPN silicon photo transistors in space efficient dual in line plastic packages.

FEATURES

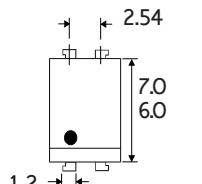
- Options :-
10mm lead spread - add G after part no.
Surface mount - add SM after part no.
Tape&reel - add SMT&R after part no.
- High Isolation Voltage ($5.3\text{kV}_{\text{RMS}}, 7.5\text{kV}_{\text{PK}}$)
- AC or polarity insensitive input
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

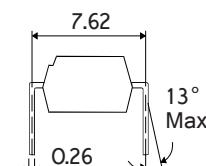
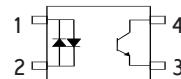
- Computer terminals
- Industrial systems controllers
- Telephone sets, Telephone exchangers
- Signal transmission between systems of different potentials and impedances



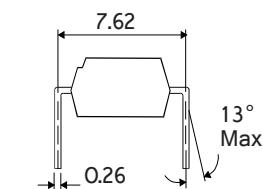
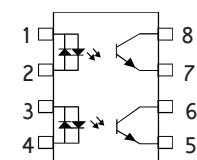
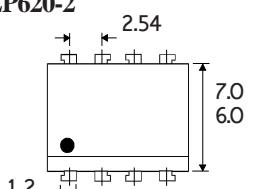
TLP620



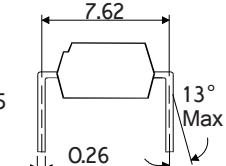
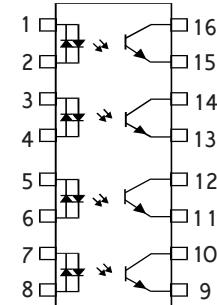
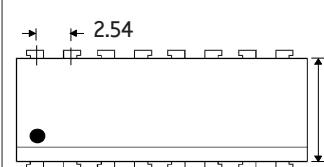
Dimensions in mm



TLP620-2



TLP620-4



ISOCOM COMPONENTS LTD
Unit 25B, Park View Road West,
Park View Industrial Estate, Brenda Road
Hartlepool, Cleveland, TS25 1UD
Tel: (01429) 863609 Fax: (01429) 863581

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
Power Dissipation	70mW

OUTPUTTRANSISTOR

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

POWERDISSIPATION

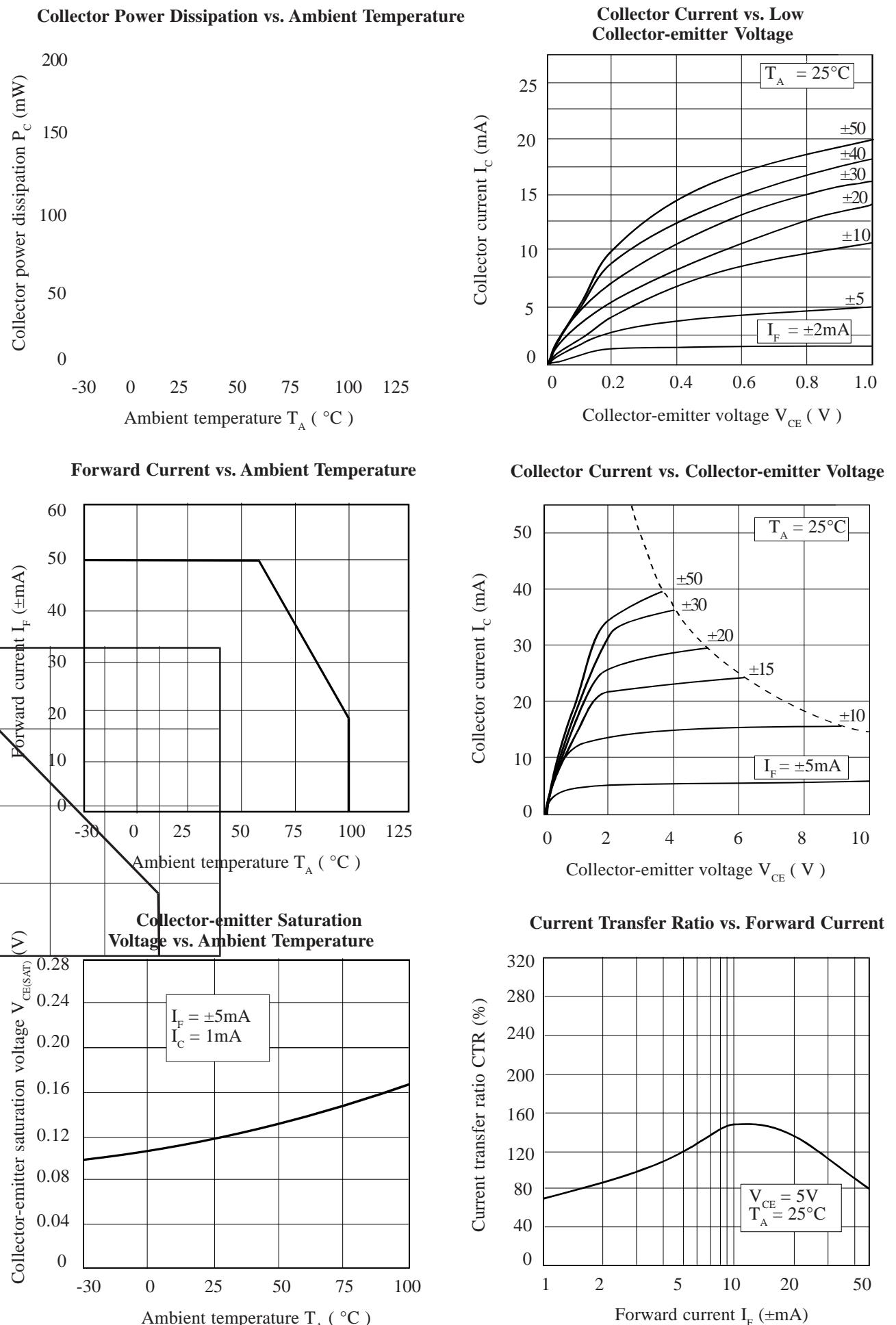
Total Power Dissipation	200mW
(derate linearly 2.67mW/°C above 25°C)	

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
Output	Collector-emitter Breakdown (BV _{CEO}) (Note 2)	55			V	I _C = 0.5mA
	Emitter-collector Breakdown (BV _{ECO})	6		100	V nA	I _E = 100µA V _{CE} = 20V
Coupled	Current Transfer Ratio (CTR) (Note 2) TLP620, TLP620-2, TLP620-4	50		600	%	± 5mA I _F , 5V V _{CE}
	CTR selection available GB	100 30		600	% %	± 5mA I _F , 5V V _{CE} ± 1mA I _F , 0.4V V _{CE}
	Collector-emitter Saturation Voltage V _{CE(SAT)} GB		0.4 0.4		V V	± 8mA I _F , 2.4mA I _C ± 1mA I _F , 0.2mA I _C
	Input to Output Isolation Voltage V _{ISO}	5300 7500			V _{RMS} V _{PK}	See note 1 See note 1
	Input-output Isolation Resistance R _{ISO}	5x10 ¹⁰			Ω	V _{IO} =500V (note 1)
	Rise Time,tr Fall Time,tf		4 3	18 18	µs 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.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [High Speed Optocouplers](#) category:

Click to view products by [Isocom manufacturer:](#)

Other Similar products are found below :

[6N136F](#) [PS8502L2-AX](#) [ACNW261L-000E](#) [ACPL-344JT-000E](#) [ACPL-K49T-500E](#) [ACPL-K74T-000E](#) [ACPL-K75T-000E](#) [ACPL-W21L-560E](#) [ACPL-K44T-500E](#) [TLP187\(TPL,E\(T](#) [TLP2601\(TP1,F\)](#) [610737H](#) [6N137A-X001](#) [6N137A-X017T](#) [6N139-X007T](#) [HCPL2630M](#) [HCPL2731SM](#) [TLP555\(F\)](#) [HCPL2630SM](#) [PS2841-4A-F3-AX](#) [PS9817A-1-F3-AX](#) [PS9821-2-F3-AX](#) [ORPC-817D](#) [ORPC-817M/C](#) [ORPC-817M/B](#) [PT17-51C/L129\(BIN2\)](#) [TLP521-4GBSM](#) [UMW817C](#) [6N137S1\(TA\)](#) [TLP521GB](#) [TLP521GB-S](#) [PS2501](#) [PS2501-S](#) [TLP785GB](#) [TLP785GB-S](#) [LTV-214-G](#) [TLP2766A\(E](#) [TLP2766A\(LF4,E](#) [LCR-0202](#) [EL814S1\(TA\)-V](#) [PC817X4NSZ2B](#) [CYPC817](#) [OR-MOC3023](#) [TLP267J\(TPL,E\(T](#) [TLP109\(TPL,E\(O](#) [EL2514S1\(TU\)\(CLW\)-G](#) [EL816S2\(C\)\(TU\)-F](#) [TLP281-4](#) [MOC3023M](#) [ACPL-K49T-060E](#)