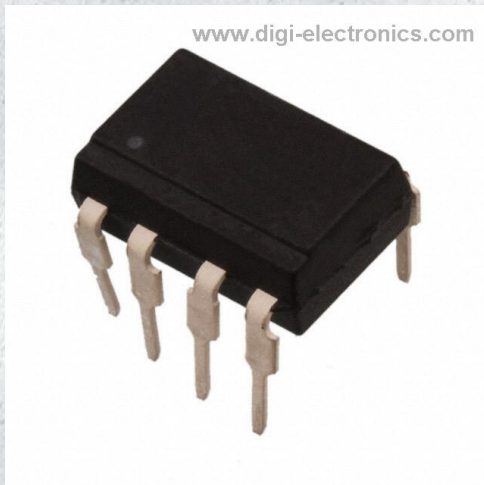


TLP620-2G Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	TLP620-2G-DG
Manufacturer	Isocom Components 2004 LTD
Manufacturer Product Number	TLP620-2G
Description	8PIN AC INPUT, DUAL CHANNEL OPTO
Detailed Description	Optoisolator Transistor Output 5300Vrms 2 Channel 18-DIP

This model TLP620-2G is available at DiGi Electronics.

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Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

TLP620-2G

Series:

TLP620-2

Number of Channels:

2

Current Transfer Ratio (Min):

50% @ 5mA

Turn On / Turn Off Time (Typ):

-

Input Type:

AC, DC

Voltage - Output (Max):

55V

Voltage - Forward (Vf) (Typ):

1.15V

Vce Saturation (Max):

400mV

Mounting Type:

Through Hole

Supplier Device Package:

8-DIP

Manufacturer:

Isocom Components 2004 LTD

Product Status:

Active

Voltage - Isolation:

5300Vrms

Current Transfer Ratio (Max):

600% @ 5mA

Rise / Fall Time (Typ):

4µs, 3µs

Output Type:

Transistor

Current - Output / Channel:

50mA

Current - DC Forward (If) (Max):

50 mA

Operating Temperature:

-30°C ~ 100°C

Package / Case:

8-DIP (0.400", 10.16mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.49.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



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

**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.

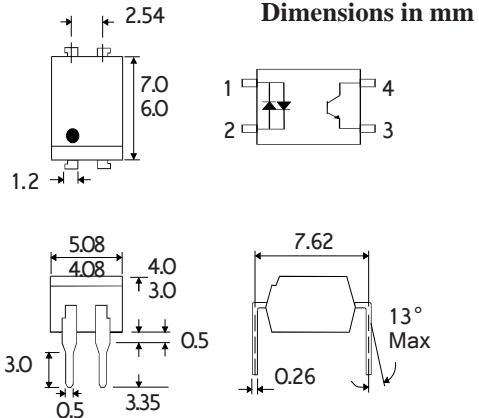
FEATURES

- 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 (5.3kV_{RMS}, 7.5kV_{PK})
- AC or polarity insensitive input
- All electrical parameters 100% tested
- Custom electrical selections available

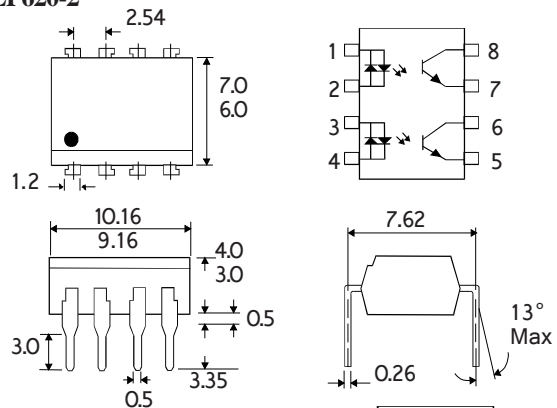
APPLICATIONS

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

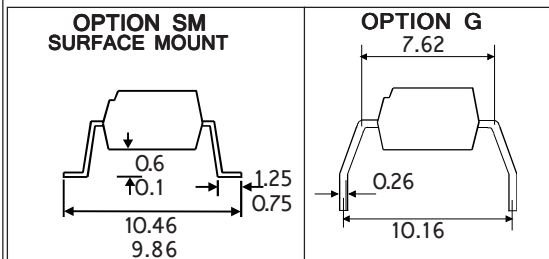
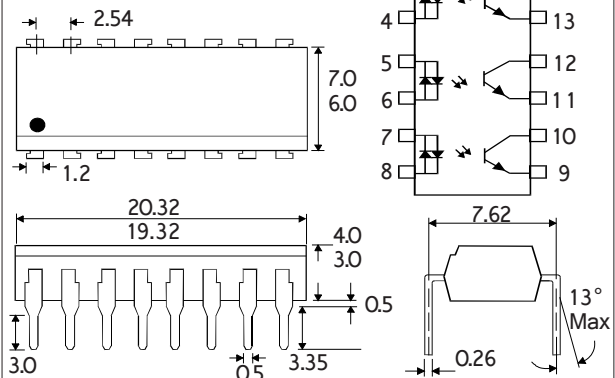
TLP620



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

ABSOLUTE MAXIMUM RATINGS

(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

INPUT DIODE

Forward Current _____ ±50mA
 Power Dissipation _____ 70mW

OUTPUT TRANSISTOR

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

POWER DISSIPATION

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

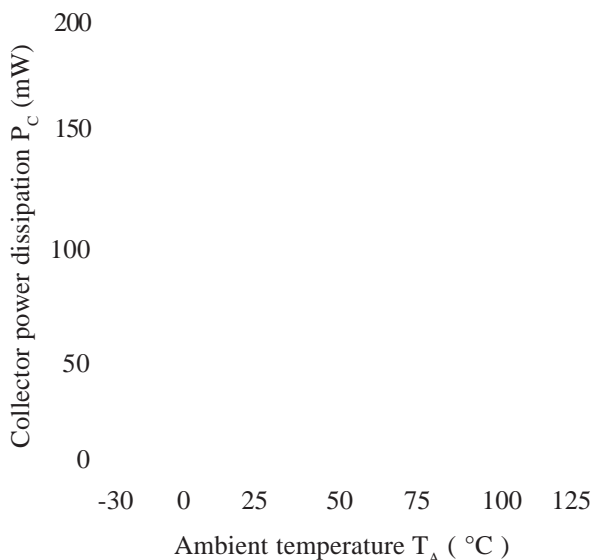
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)	1.0	1.15	1.3	V	$I_F = \pm 10\text{mA}$
Output	Collector-emitter Breakdown (BV_{CEO}) (Note 2)	55			V	$I_C = 0.5\text{mA}$
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 100\mu\text{A}$
	Collector-emitter Dark Current (I_{CEO})			100	nA	$V_{CE} = 20\text{V}$
Coupled	Current Transfer Ratio (CTR) (Note 2) TLP620, TLP620-2, TLP620-4	50		600	%	$\pm 5\text{mA}I_F, 5\text{V} V_{CE}$
	CTR selection available GB	100		600	%	$\pm 5\text{mA}I_F, 5\text{V} V_{CE}$
		30			%	$\pm 1\text{mA}I_F, 0.4\text{V} V_{CE}$
	Collector-emitter Saturation Voltage $V_{CE(SAT)}$ GB			0.4	V	$\pm 8\text{mA}I_F, 2.4\text{mA}I_C$
				0.4	V	$\pm 1\text{mA}I_F, 0.2\text{mA}I_C$
	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}	5×10^{10}			Ω	$V_{IO} = 500\text{V}$ (note 1)
Rise Time, tr		4	18	μs	$V_{CE} = 2\text{V},$	
Fall Time, tf		3	18	μs	$I_C = 2\text{mA}, R_L = 100\Omega$	

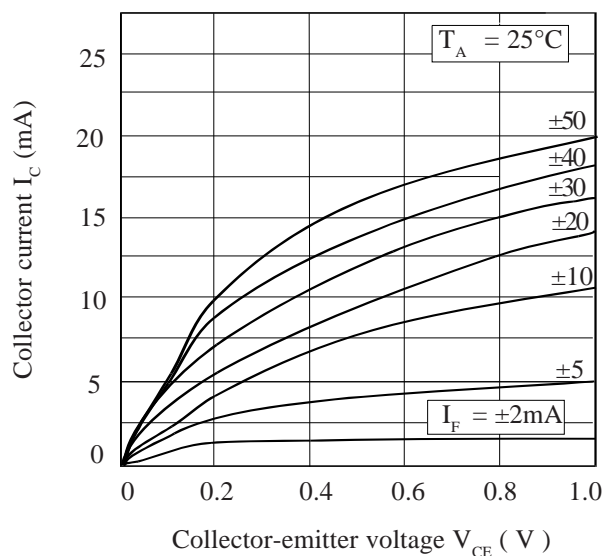
Note 1 Measured with input leads shorted together and output leads shorted together.

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

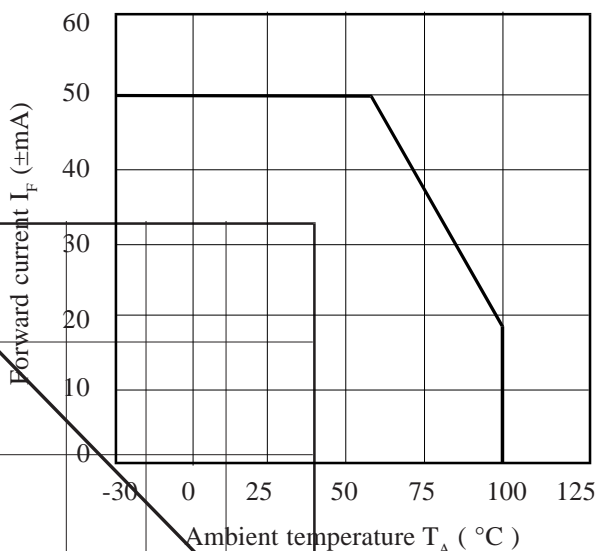
Collector Power Dissipation vs. Ambient Temperature



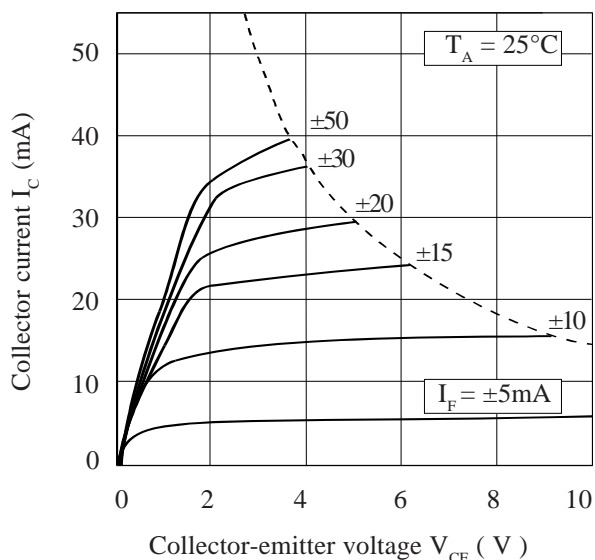
Collector Current vs. Low Collector-emitter Voltage



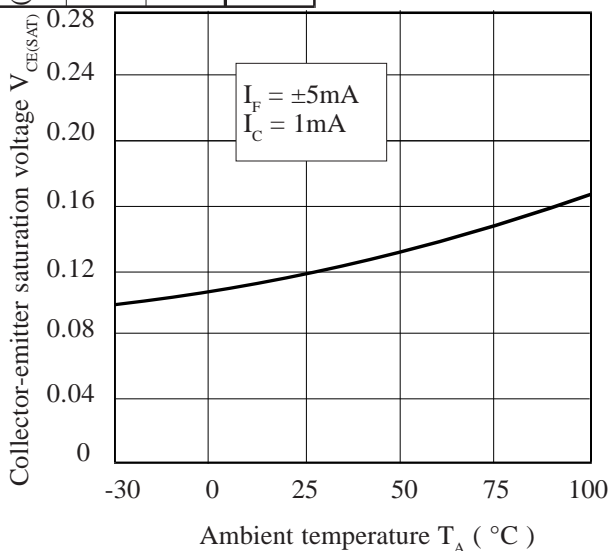
Forward Current vs. Ambient Temperature



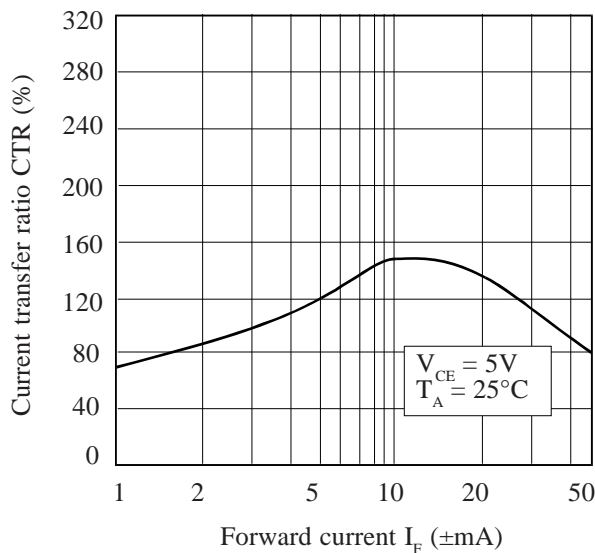
Collector Current vs. Collector-emitter Voltage



Collector-emitter Saturation Voltage vs. Ambient Temperature



Current Transfer Ratio vs. Forward Current



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