

ISP620-1X, ISP620-2X, ISP620-4X
ISP620-1, ISP620-2, ISP620-4



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 form :-
 - STD
 - G form
 - SMD approved to CECC 00802
- Certified to EN60950 by :-
Nemko - Certificate No. P01102465

DESCRIPTION

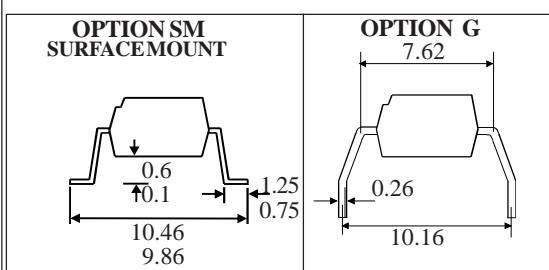
The ISP620-1, ISP620-2, ISP620-4 series of optically coupled isolators consist of two infrared light emitting diodes connected in inverse parallel and NPN silicon photo transistors in space efficient dual in line plastic packages.

FEATURES

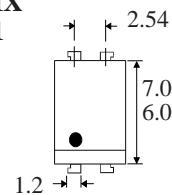
- Options :-
 - 10mm lead spread - add G after part no.
 - Surface mount - add SM after part no.
 - Tape&reel - add SMT&R after part no.
- High Isolation Voltage (5.3kV_{RMS}, 7.5kV_{PK})
- AC or polarity insensitive input
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

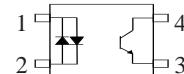
- Computer terminals
- Industrial systems controllers
- Telephone sets, Telephone exchangers
- Signal transmission between systems of different potentials and impedances



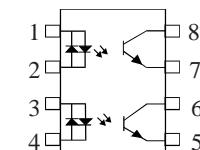
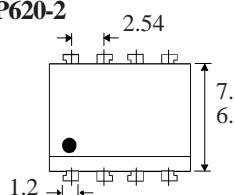
**ISP620-1X
ISP620-1**



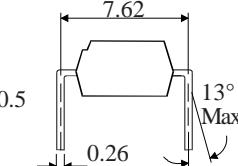
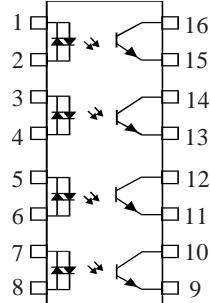
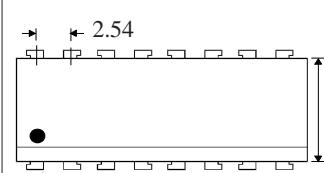
Dimensions in mm



**ISP620-2X
ISP620-2**



**ISP620-4X
ISP620-4**



ISOCOM COMPONENTS 2004 LTD

Unit 25B, Park View Road West,
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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
Power Dissipation	70mW

OUTPUTTRANSISTOR

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

POWERDISSIPATION

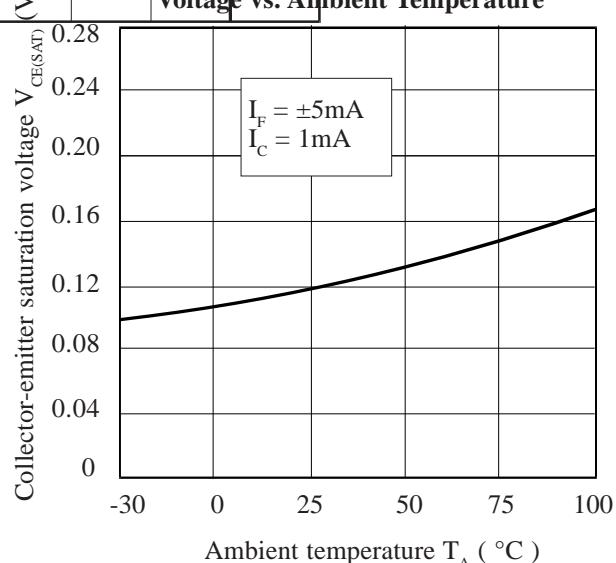
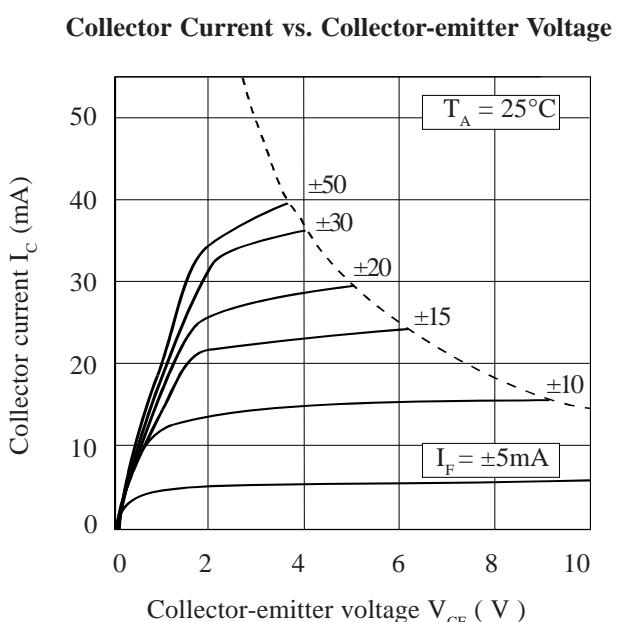
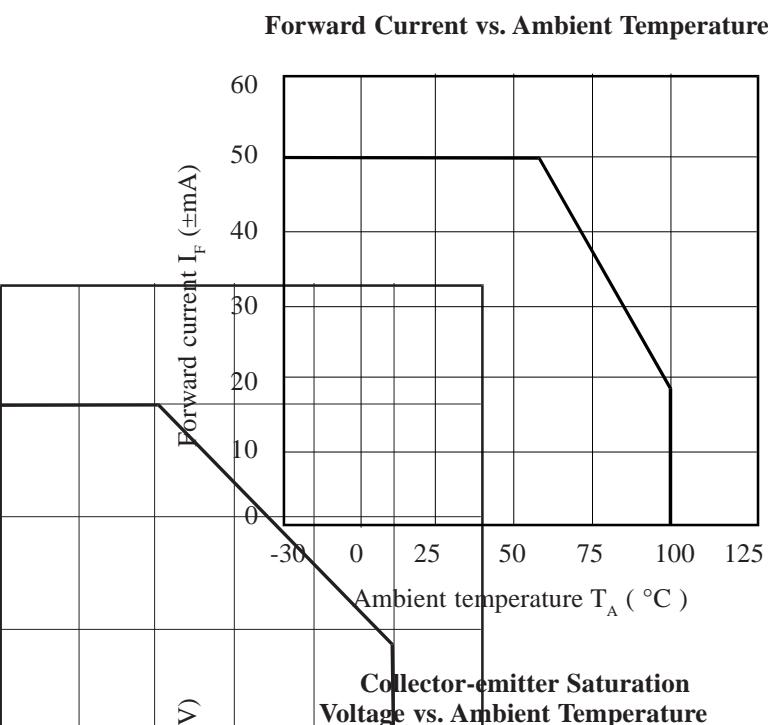
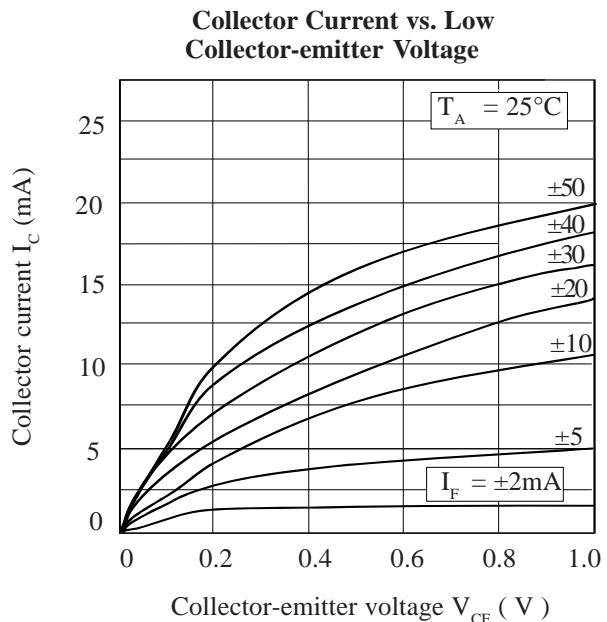
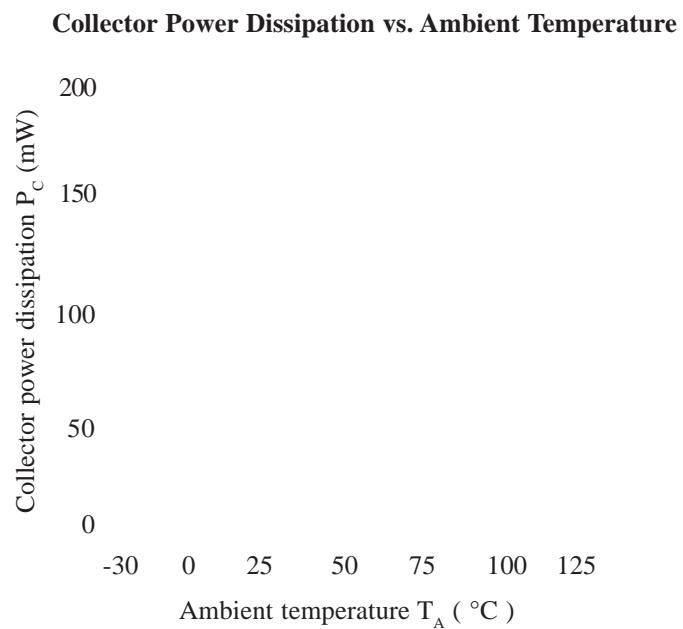
Total Power Dissipation	200mW
(derate linearly 2.67mW/°C above 25°C)	

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			V	I _E = 100µA
	Collector-emitter Dark Current (I _{CEO})			100	nA	V _{CE} = 20V
Coupled	Current Transfer Ratio (CTR) (Note 2) ISP620-1, ISP620-2, ISP620-4	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	± 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		4		µs	V _{CE} = 2V,
	Fall Time, tf		3		µs	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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