



HIGH DENSITY MOUNTING PHOTOTRANSISTOR OPTICALLY COUPLED ISOLATORS

APPROVALS

- UL recognised, File No. E91231

DESCRIPTION

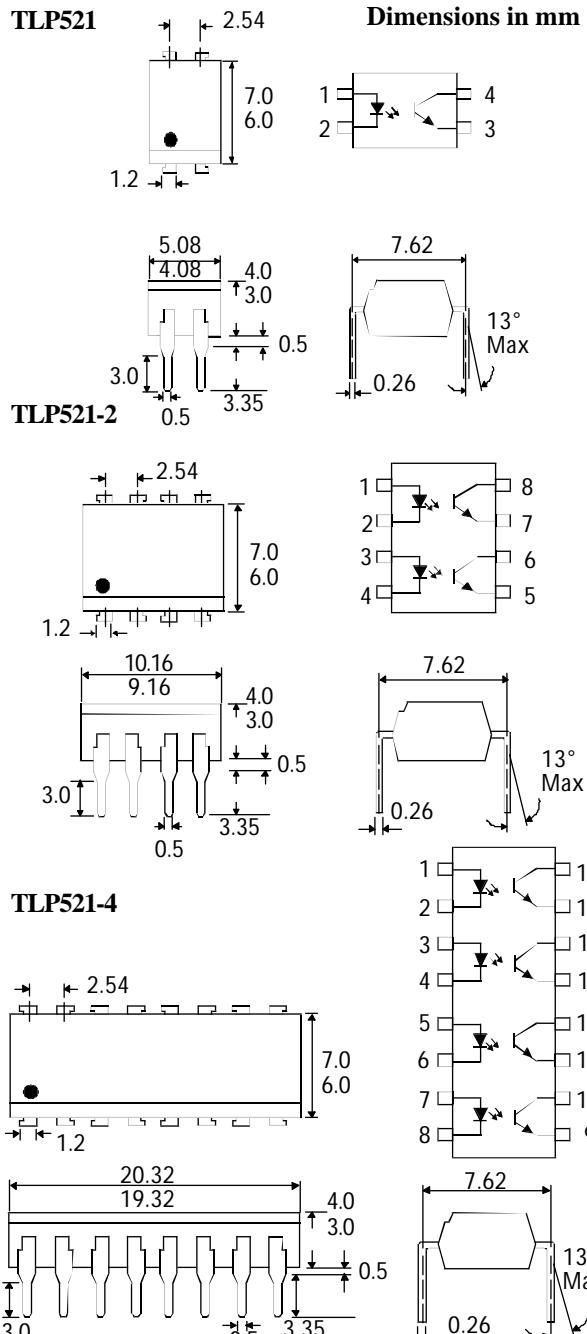
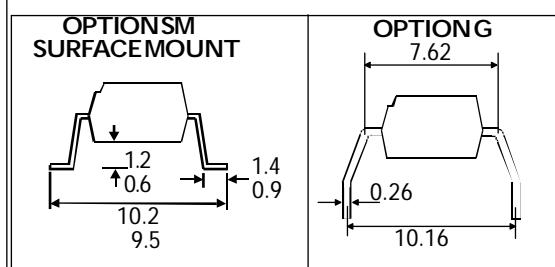
The TLP521, TLP521-2, TLP521-4 series of optically coupled isolators consist of infrared light emitting diodes and NPN silicon photo transistors in space efficient dual in line plastic packages.

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



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

ISOCOM INC
720 E., Park Boulevard, Suite 104,
Plano, TX 75074 USA
Tel: (972) 423-5521
Fax: (972) 422-4549

ABSOLUTE MAXIMUM RATINGS
(25°C unless otherwise specified)

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

INPUT DIODE

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

OUTPUT TRANSISTOR

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

POWER DISSIPATION

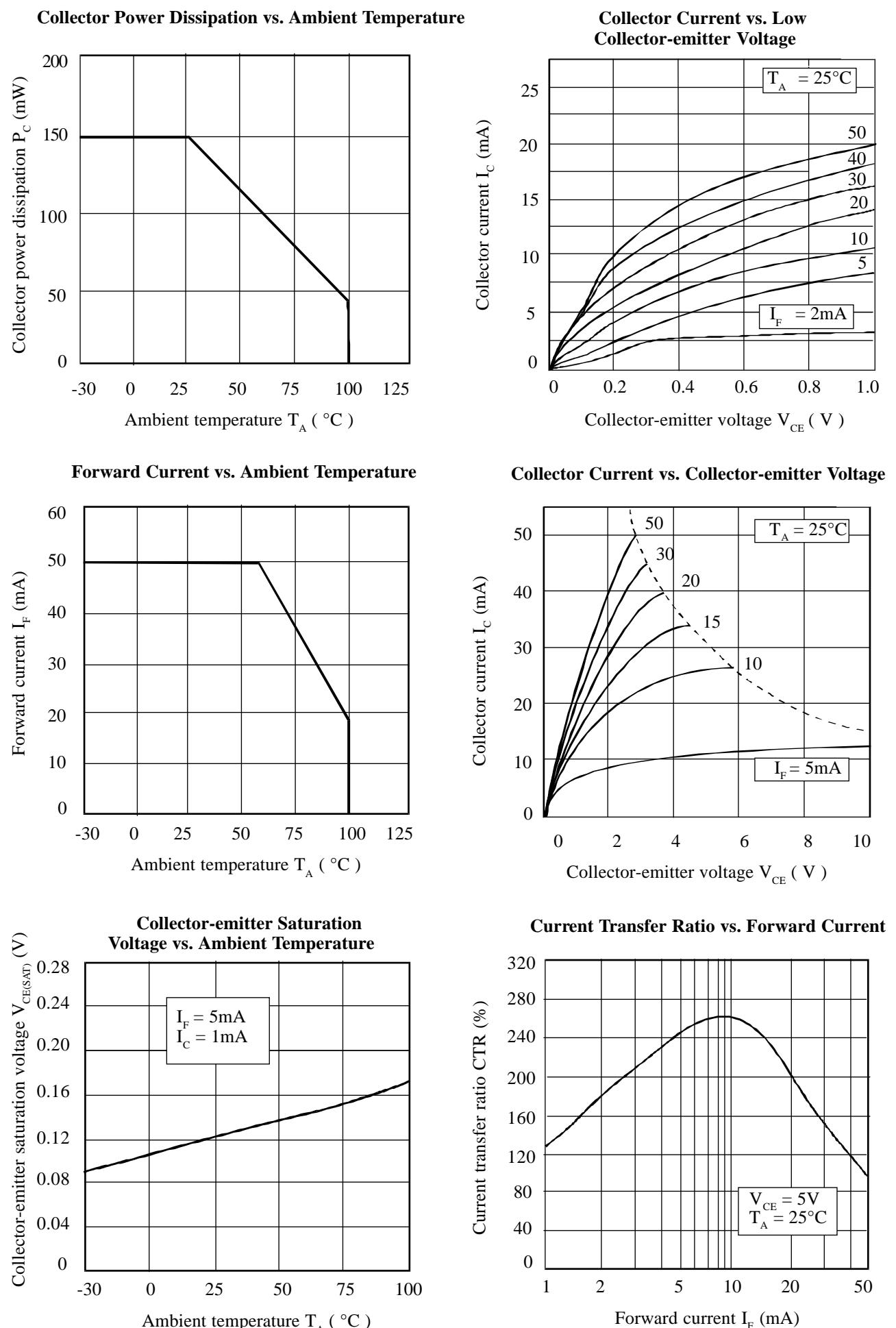
Total Power Dissipation	200mW
(derate linearly 2.67mW/°C above 25°C)	

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

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F) Reverse Voltage (V _R) Reverse Current (I _R)	1.0 5	1.15	1.3 10	V V μA	I _F = 10mA I _R = 10μA V _R = 5V
Output	Collector-emitter Breakdown (BV _{CEO}) (Note 2) Emitter-collector Breakdown (BV _{ECO}) Collector-emitter Dark Current (I _{CEO})	55 6			V V nA	I _C = 0.5mA I _E = 100μA V _{CE} = 24V
Coupled	Current Transfer Ratio (CTR) (Note 2) TLP521, TLP521-2, TLP521-4 CTR selection available BL GB GB Collector-emitter Saturation Voltage V _{CE (SAT)} -GB Input to Output Isolation Voltage V _{ISO} Input-output Isolation Resistance R _{ISO} Rise Time tr Fall Time tf Turn-on Time ton Turn-off Time toff	50 200 100 30 5300 7500 5x10 ¹⁰		600 600 600 0.4 0.4 V _{RMS} V _{PK} Ω	% % % % V V μs μs μs μs	5mA I _F , 5V V _{CE} 1mA I _F , 0.2mA I _C See note 1 See note 1 V _{IO} = 500V (note 1) V _{CC} = 10V , 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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