

ISP321-1X, ISP321-2X, ISP321-4X  
ISP321-1, ISP321-2, ISP321-4



**HIGH DENSITY MOUNTING  
PHOTOTRANSISTOR  
OPTICALLY COUPLED ISOLATORS**

**APPROVALS**

- UL recognised, File No. E91231
- 'X' SPECIFICATION APPROVALS
- VDE 0884 in 3 available lead form :-  
- STD  
- G form  
- SMD approved to CECC 00802
- Certified to EN60950 by the following Test Bodies :-  
Nemko - Certificate No. P01102465  
Fimko - Certificate No. FI18162  
Semko - Reference No. 0202041/01-25  
Demko - Certificate No. 311161-01
- BSI approved - Certificate No. 8001

**DESCRIPTION**

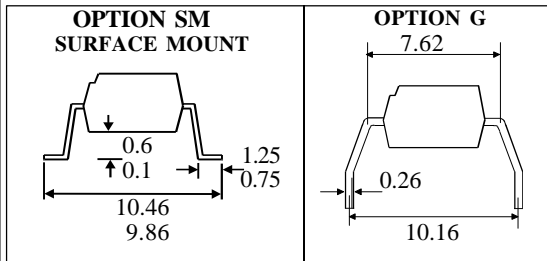
The ISP321-1, ISP321-2, ISP321-4 series of optically coupled isolators consist of infrared light emitting diodes and NPN silicon photo transistors in space efficient dual in line plastic packages.

**FEATURES**

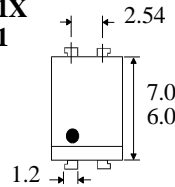
- Options :-  
10mm lead spread - add G after part no.  
Surface mount - add SM after part no.  
Tape&reel - add SMT&R after part no.
- High Current Transfer Ratio ( 50% min)
- High Isolation Voltage (5.3kV<sub>RMS</sub>, 7.5kV<sub>PK</sub>)
- High BV<sub>CEO</sub> ( 80Vmin )
- All electrical parameters 100% tested
- Custom electrical selections available

**APPLICATIONS**

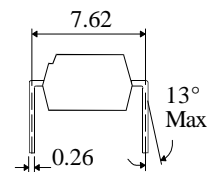
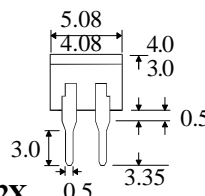
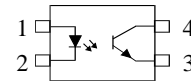
- Computer terminals
- Industrial systems controllers
- Measuring instruments
- Signal transmission between systems of different potentials and impedances



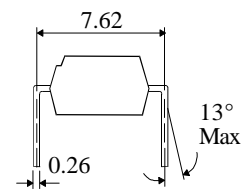
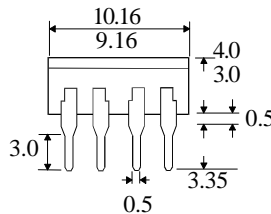
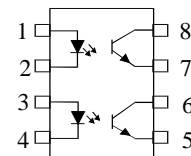
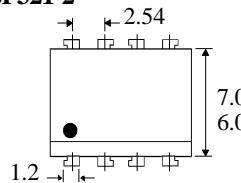
**ISP321-1X  
ISP321-1**



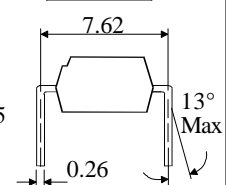
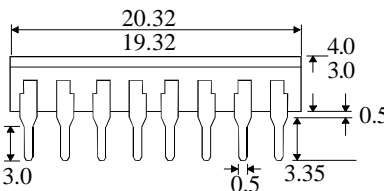
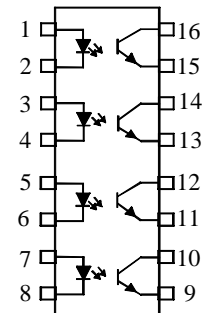
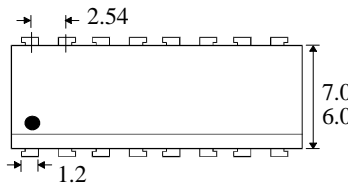
**Dimensions in mm**



**ISP321-2X  
ISP321-2**



**ISP321-4X  
ISP321-4**



**ISOCOM COMPONENTS LTD**

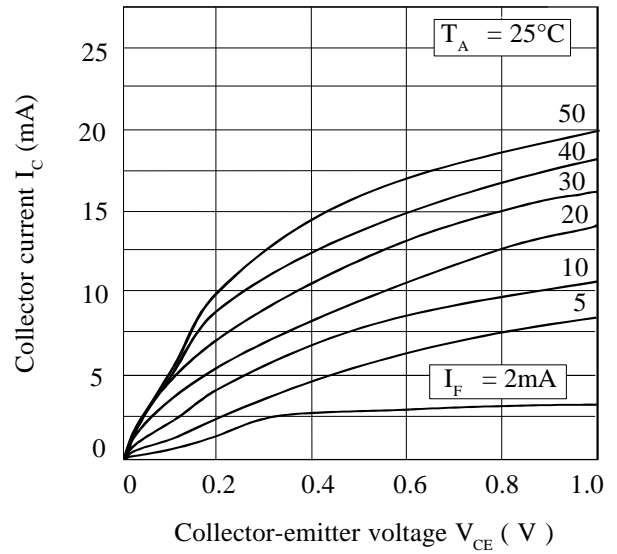
Unit 25B, Park View Road West,  
Park View Industrial Estate, Brenda Road  
Hartlepool, TS25 1YD England Tel: (01429)863609  
Fax: (01429) 863581 e-mail sales@isocom.co.uk  
<http://www.isocom.com>



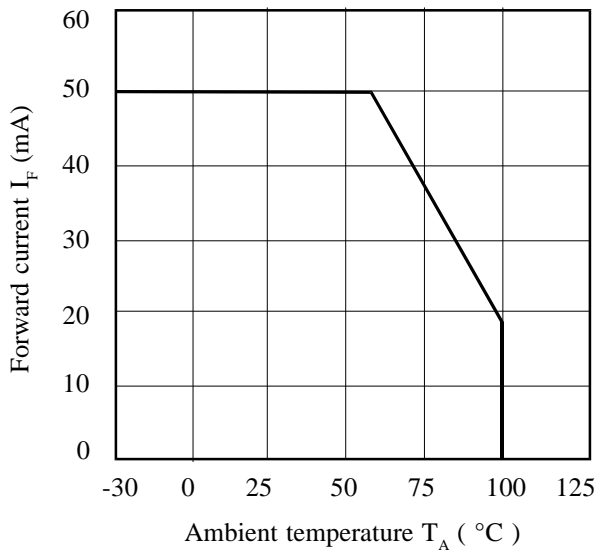
**Collector Power Dissipation vs. Ambient Temperature**



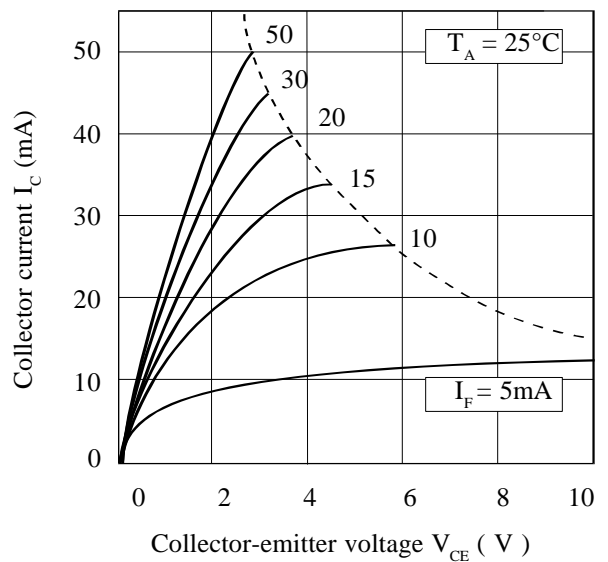
**Collector Current vs. Low Collector-emitter Voltage**



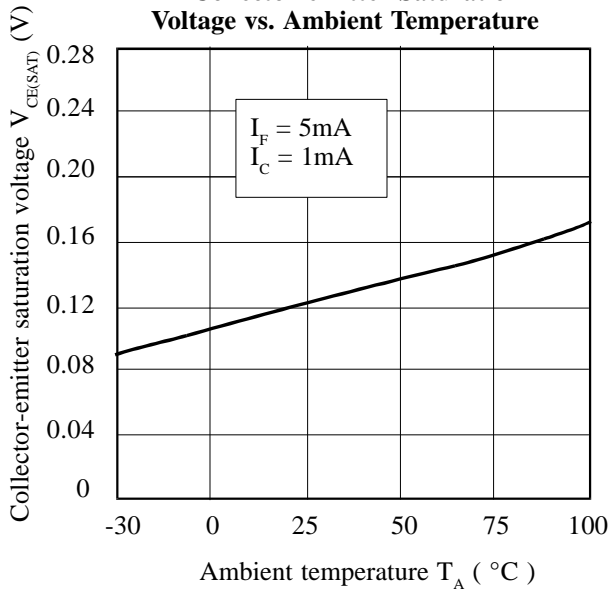
**Forward Current vs. Ambient Temperature**



**Collector Current vs. Collector-emitter Voltage**



**Collector-emitter Saturation Voltage vs. Ambient Temperature**



**Current Transfer Ratio vs. Forward Current**

