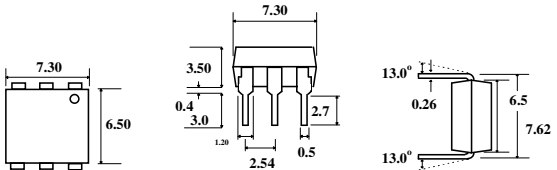
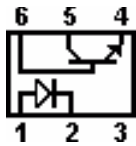


CNY17-1-2-3 TRANSISTOR OPTOCOUPLEDERS

ISOCOM[®] LTD

PACKAGES	CIRCUIT
	

DESCRIPTION

The CNY17-1 is an optically coupled isolator. It consists of a Gallium Arsenide infrared emitting diode and a NPN silicon phototransistor mounted in a standard 6-pin plastic dual-in-line package.

Isocom Ltd supplies a multitude of plastic optocouplers for all applications varying from standard transistor optocouplers through to Darlington and Schmitt Trigger devices. Its massive family of optocouplers vary in speed allowing maximum opportunity to engineers worldwide.

All devices are performance guaranteed between -20°C and +80°C and have completed rigorous testing. The Company's customers can be assured of our commitment to stringent quality, reliability and inspection standards, as demonstrated by our existing approvals. Other customer specific options can also be offered.

FEATURES

- 4400V Isolation
- CTR Min 40%
- Compact Dual in Line Package
- UL Approval E250824

Isocom Ltd reserves the right to change the details on this specification without notice. Please consult Isocom Ltd prior to use. Isocom Ltd cannot accept liability for any errors or omissions.

For sales enquiries, or further information, please contact our sales office at:
Isocom Ltd, Hutton Close, Crowther Industrial Estate, District 3, Washington, NE38 0AH
Tel: +44 0191 4166 546 Fax: +44 0191 4155 055 Email sales@isocom.uk.com
Or go to the Isocom Website @: [Http://www.isocom.uk.com](http://www.isocom.uk.com)

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-55°C to +125°C
Operating Temperature	-30°C to +100°C
Lead Soldering Temperature	260°C 1.6mm from case for 10S
Input-to-Output Isolation Voltage	↑5000VDC for 1 min

Input Diode

Forward DC Current	50mA	
Reverse DC Voltage	6V	
Peak forward Current	1A	1μS p.w. 300 pps
Power Dissipation	70mW	

Output Transistor

Collector-Emitter Voltage	60V	BV _{CEO}
Emitter-collector voltage	6V	BV _{ECO}
Collector Current	50mA	
Collector Power Dissipation	150mW	

ELECTRICAL CHARACTERISTICS

T_A = 25°C U.O.S. (each channel where appropriate).

Input Diode Electrical Characteristics

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Forward Voltage	V _F	I _F = 20mA		1.2	1.4	V
Peak Forward Voltage	V _{FM}	I _{FM} = 0.5A			3.5	V
Reverse Current	I _R	V _R = 4.0V			10	μA
Terminal Capacitance	C _T	V = 0, f = 1Khz		30		pF

Output Detector Electrical Characteristics

Collector Dark Current	I _{CEO}	V _{CE} = 20V, I _F = 0			10 ⁻⁷	A
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Coupled Electrical Characteristics

DC Current Transfer Ratio	CTR	I _F = 2mA, V _{CE} = 5V	40		160	%
Collector-Emitter Saturation Voltage	V _{CE(Sat)}	I _F = 20mA, I _C = 1mA		0.1	0.3	V
Input-to-Output Isolation Resistance	R _{ISO}	V _{IO} = 500V	5*10 ¹¹	10 ¹¹		Ω
Floating Capacitance	C _F	V = 0, f = 1Mhz		0.6	1.0	pF
Cut Off Frequency	F _C	V _{CE} = 5V, I _C = 2mA, R _L = 100Ω		80		KHz
Response Time (Rise)	T _R	V _{CC} = 5V, I _C = 2mA, R _L = 100Ω		5	20	μS
Response Time (Fall)	T _F			4	20	μS
Input-to-Output Isolation Voltage			4400			V

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