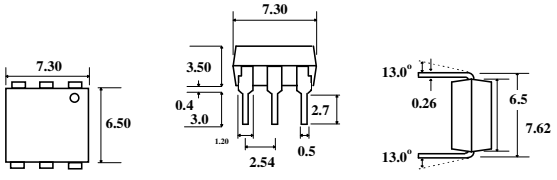
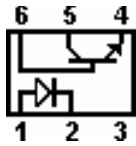


4N26 TRANSISTOR OPTOCOUPLEDERS

ISOCOM[®] LTD

PACKAGES	CIRCUIT
 Top view dimensions: 7.30, 6.50, 0.4, 3.0, 1.20, 2.54, 0.5, 2.7. Side view dimensions: 7.30, 3.50, 0.4, 3.0, 1.20, 2.54, 0.5, 2.7. End view dimensions: 13.0°, 0.26, 6.5, 7.62, 13.0°.	 Circuit diagram showing the internal structure of the 4N26 optocoupler with pins 1, 2, 3, 4, 5, 6.

DESCRIPTION

The 4N26 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 dual-in-line package

Isocom Ltd supplies a multitude of plastic optocouplers for all applications varying from standard transistor optocoupler through to Darlington and Schmitt Trigger devices. Its massive family of optocoupler 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

- 1500V Isolation
- High DC Current transfer ratio
- Low cost 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:
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Or go to the Isocom Website @: [Http://www.isocom.uk.com](http://www.isocom.uk.com)

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-55°C to +150°C
Operating Temperature	-55°C to +100°C
Lead Soldering Temperature	260°C 1.6mm from case for 10S
Input-to-Output Isolation Voltage	↑1500V

Input Diode

Forward DC Current	80mA	
Reverse DC Voltage	3V	
Peak forward Current	3.0A	1μS p.w. 300 pps
Power Dissipation	100mW	Derate linearly above 25°C at 1.33mW/°C.

Output Transistor

Collector-Emitter Voltage	30V	BV _{CEO}
Emitter-collector voltage	7V	BV _{ECO}
Collector-base voltage	70V	BV _{CBO}
Power Dissipation	150mW	Derate linearly above 25°C at 2.0mW/°C

Package

Total Power Dissipation	250mW	Derate linearly above 25°C at 3.3mW/°C
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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 = 10mA			1.5	V
Reverse Current	I _R	V _R = 3.0V			100	μA
Reverse Breakdown Voltage	V _R	I _R = 100μA	3.0			V

Output Detector Electrical Characteristics

Collector-emitter Voltage	BV _{CEO}	I _C = 1mA	30			V
Emitter-collector Voltage	BV _{ECO}	I _E = 100μA	7			V
Collector-base Voltage	BV _{CBO}	I _C = 100μA	70			V
Collector-emitter Dark Current	I _{CEO}	V _{CE} = 10V, I _B = 0			50	nA
Collector-base Dark Current	I _{CBO}	V _{CB} = 10.0V, I _E = 0			20	nA
Collector-Emitter Capacitance	C _{CE}	V _{CE} = 0		10		pF
	H _{FE}	V _{CE} = 5.0V, I _C = 100μA		150		

Coupled Electrical Characteristics

DC Current Transfer Ratio	CTR	I _F = 10mA, V _{CE} = 10V, I _B = 0	20	50		%
Input-to-Output Isolation Resistance	R _{ISO}	V _{IO} = 500V	10 ¹¹			Ω
Collector-Emitter Saturation Voltage	V _{CE(Sat)}	I _F = 50mA, I _C = 2mA			0.5	V
Capacitance Input to Output	C _{IO}	F = 1Mhz		0.6		pF
Output Rise Time	T _R	V _{CC} = 10V, I _C = 2mA, R _L = 100Ω		2.0		μS
Output Fall Time	T _F			2.0		μS
Input-to-Output Isolation Voltage			1500			V

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