

MOCD207



ISOCOM
COMPONENTS

**HIGH DENSITY MOUNTING DUAL
CHANNEL OPTICALLY COUPLED
ISOLATOR**



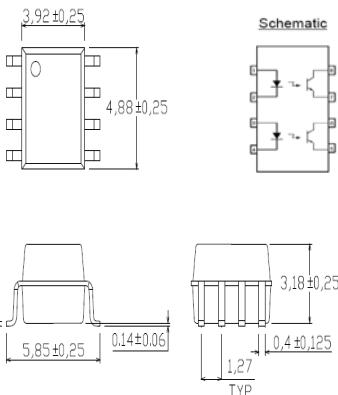
DESCRIPTION

The MOCD207 optically coupled isolator consists of two infrared light emitting diodes and two NPN silicon photo transistors in a space efficient dual in line plastic package.

FEATURES

- Super Small Outline
- Special Selection CTR 100 - 200%
- High Isolation Voltage (3750V_{RMS})
- All electrical parameters 100% tested
- Custom electrical selections available

Dimensions in mm



APPLICATIONS

- Feedback Control Circuits
- Interfacing and coupling systems of different potentials and impedances
- General Purpose Switching Circuits
- Monitor and Detection Circuits

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ABSOLUTEMAXIMUMRATINGS
(25°C unless otherwise specified)

Storage Temperature	-55°C to +150°C
Operating Temperature	-55°C to +110°C

INPUTDIODE

Forward Current	60mA
Reverse Voltage	6V
Power Dissipation	90mW

OUTPUTTRANSISTOR

Collector-emitter Voltage BV _{CEO}	80V
Emitter-collector Voltage BV _{ECO}	7V
Collector Current	50mA
Power Dissipation	150mW

POWERDISSIPATION

Total Power Dissipation	250mW
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ELECTRICAL CHARACTERISTICS (T_A = 25°C Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F)		1.2	1.5	V	I _F =10mA
	Reverse Current (I _R)			100	µA	V _R =6V
Output	Collector-emitter Breakdown (BV _{CEO})	80			V	I _C =0.1mA
	Emitter-collector Breakdown (BV _{ECO})	7			V	I _E =100µA
	Collector-emitter Dark Current (I _{CEO})			50	nA	V _{CE} =10V
Coupled	Current Transfer Ratio (CTR)	100 34	70	200	%	10mA I _F , 5V V _{CE} 1mA I _F , 5V V _{CE}
	Collector-Emitter Saturation Voltage			0.4	V	10mA I _F , 2.4mA I _C
	Input to Output Isolation Voltage V _{ISO}	3750			V _{RMS}	See note 1
	Input-output Isolation Resistance R _{ISO}	10 ¹¹			Ω	V _{IO} =500VDC (note 1)
	Output Rise Time (tr) Output Fall Time (tf)		1.6 2.2	18	µs	V _{CC} =5V, I _C =2mA, R _L =100Ω

Note 1 Measured with input leads shorted together and output leads shorted together.