



FODM1009: Single Channel, DC Sensing Input, Phototransistor Optocoupler In Stretched Body SOP 4-Pin

Datasheet:
FODM100x Series Single Channel, DC Sensing Input, Phototransistor Optocoupler In Stretched Body SOP 4-Pin
 Rev. 2 (385kB)

Product Overview

- »View Reliability Data
- »View Material Composition
- » Product Change Notification

The FODM100x Series, single channel, DC sensing input, optocoupler consists of one gallium arsenide (GaAs) infrared light emitting diode optically coupled to one phototransistor, in a stretched body SOP 4-pin package. The input-output isolation voltage, VISO, is rated at 5,000 VACRMS

Features

- " ≥ 8 mm Creepage and Clearance Distance, and ≥ 0.4 mm Insulation Distance to Achieve Reliable and High Voltage Insulation
- Safety and Regulatory Approvals
- UL1577, 5,000 VACRMS for 1 min.
- DIN_EN/IEC60747-5-5, 890 V_Peak Working Voltage
- High Breakdown Collector to Emitter Voltage, BVCEO = 70 V minimum
- Extended Industrial Temperature Range, -40 to 110°C
- Current Transfer Ratio at IF = 5 mA, VCE = 5 V, TA = 25°C
- FODM1007: 80 to 160%
- FODM1008: 130 to 260%
- FODM1009: 200 to 400%"

Applications

- Primarily suited for DC-DC Converters
- For ground loop isolation, signal to noise isolation
- Communications – adapters, chargers
- Consumer – appliances, set top boxes
- Industrial – power supplies, motor control, programmable logic control

Technical Documentation & Design Resources

[Application Notes \(2\)](#)

[Package Drawings \(1\)](#)

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Availability & Samples

Specifications

Product	Status	Compliance	Description	Package		MSL*	Container		Budgetary Price/Unit
				Type	Case Outline		Type	Qty.	
FODM1009	Active	Pb-free	Single Channel, DC Sensing Input, Phototransistor Optocoupler In Stretched Body SOP 4-Pin	SSOP-4 / LSOP-4	565BH	1	Tube	2000	Sample
FODM1009R2	Active	Pb-free	Single Channel, DC Sensing Input, Phototransistor Optocoupler In Stretched Body SOP 4-Pin	SSOP-4 / LSOP-4	565BH	1	Tape and Reel	3000	Sample Inventory

Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

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