

FODM1008: 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 Temperate 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.	
FODM1008	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
FODM1008R2	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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