

Product Overview

FODM121: 4-Pin Full Pitch Mini-Flat Package Phototransistor Optocouplers

For complete documentation, see the data sheet.

The FODM121 series, FODM124, and FODM2701 consists of a gallium arsenide infrared emitting diode driving a phototransistor in a compact 4-pin mini-flat package. The lead pitch is 2.54 mm. The FODM2705 consists of two gallium arsenide infrared emitting diodes connected in inverse parallel for AC operation.

Features

- More than 5mm Creepage/Clearance
- Compact 4-Pin Surface Mount Package (2.4mm Maximum Standoff Height)
- Current Transfer Ratio in Selected Groups
DC Input:
FODM121: 50–600%
FODM121A: 100–300%
FODM121B: 50–150%
FODM121C: 100–200%
FODM124: 100% MIN
FODM2701: 50–300%
AC Input:
FODM2705: 50–300%
- Safety and Regulatory Approvals:
◆ UL1577, 3,750 VACRMS for 1 Minute
◆ DIN-EN/IEC60747-5-5, 565 V Peak Working Insulation Voltage

Applications

- Digital logic inputs
- Microprocessor inputs
- Power supply monitor
- Twisted pair line receiver
- Telephone line receiver

Part Electrical Specifications

Product	Compliance	Status	Channels	CTR (Min) (%)	CTR (Max) (%)	CTR tested @ IF (mA)	V _{CE(sat)} (V) (Max)	V _{CE} (V) (Min)	V _{CB} (V) (Min)	V _{EC} (V) (Min)	t _{on} (μs) (Max)	t _{off} (μs) (Max)	V _{ISO} (V) (Min)	T _{OPR} (Min) (°C)	T _{OPR} (Max) (°C)	Package Type
FODM121	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121A	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121AR2	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121AR2V	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121AV	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121B	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121BR2	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121C	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121CR2	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121CR2V	Pb-free	Active						80	-		-	-				MFP-4
FODM121R2	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121R2V	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4
FODM121V	Pb-free	Active	1	50	600	5	0.4	80	-	7	-	-	3750	-40	110	MFP-4

For more information please contact your local sales support at www.onsemi.com.
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