

FODM8801A Datasheet

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DiGi Electronics Part Number	FODM8801A-DG
Manufacturer	onsemi
Manufacturer Product Number	FODM8801A
Description	OPTOISO 3.75KV TRANS 4-MINI-FLAT
Detailed Description	Optoisolator Transistor Output 3750Vrms 1 Channel 4-Mini-Flat

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Purchase and inquiry

Manufacturer Product Number:

FODM8801A

Series:

OptoHit™

Number of Channels:

1

Current Transfer Ratio (Min):

80% @ 1mA

Turn On / Turn Off Time (Typ):

6µs, 6µs

Input Type:

DC

Voltage - Output (Max):

75V

Voltage - Forward (Vf) (Typ):

1.35V

Vce Saturation (Max):

400mV

Mounting Type:

Surface Mount

Supplier Device Package:

4-Mini-Flat

Manufacturer:

onsemi

Product Status:

Active

Voltage - Isolation:

3750Vrms

Current Transfer Ratio (Max):

160% @ 1mA

Rise / Fall Time (Typ):

5µs, 5.5µs

Output Type:

Transistor

Current - Output / Channel:

30mA

Current - DC Forward (If) (Max):

20 mA

Operating Temperature:

-40°C ~ 125°C

Package / Case:

4-SOIC (0.173", 4.40mm Width)

Base Product Number:

FODM8801

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.49.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

OptoHiT™ Series, High-Temperature Phototransistor Optocoupler in Half-Pitch Mini-Flat 4-Pin Package

FODM8801A, FODM8801B, FODM8801C

Description

In the OptoHiT series, the FODM8801 is a first-of-kind phototransistor, utilizing onsemi's leading-edge proprietary process technology to achieve high operating temperature characteristics, up to 125°C. The opto-coupler consists of an aluminum gallium arsenide (AlGaAs) infrared light-emitting diode (LED) optically coupled to a phototransistor, available in a compact half-pitch, mini-flat, 4-pin package. It delivers high current transfer ratio at very low input current. The input-output isolation voltage, V_{ISO} , is rated at 3750 $V_{AC_{RMS}}$.

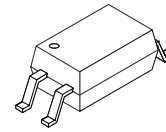
Features

- Utilizing Proprietary Process Technology to Achieve High Operating Temperature: Up to 125°C
- Guaranteed Current Transfer Ratio (CTR) Specifications Across Full Temperature Range
 - ◆ Excellent CTR Linearity at High-Temperature
 - ◆ CTR at Very Low Input Current, I_F
- High Isolation Voltage Regulated by Safety Agency: C-UL / UL1577, 3750 $V_{AC_{RMS}}$ for 1 Minute and DIN EN/IEC60747-5-5
- Compact Half-Pitch, Mini-Flat, 4-Pin Package (1.27 mm Lead Pitch, 2.4 mm Maximum Standoff Height)
- >5 mm Creepage and Clearance Distance
- Applicable to Infrared Ray Reflow, 245°C
- These are Pb-Free Devices

Applications

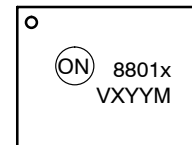
- Primarily Suited for DC-DC Converters
- Ground-Loop Isolation, Signal-Noise Isolation
- Communications – Adapters, Chargers
- Consumer – Appliances, Set-Top Boxes
- Industrial – Power Supplies, Motor Control, Programmable Logic Control

HALF-PITCH MINI-FLAT



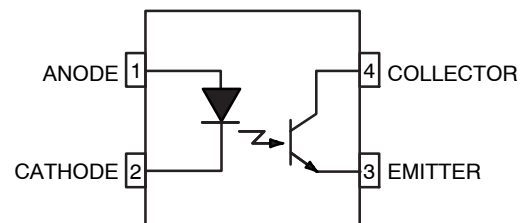
MFP4 2.5 x 4.4, 1.27P
CASE 100AL

MARKING DIAGRAM



- 8801x = Specific Device Code (x = A, B, C)
 V = DIN EN/IEC60747-5-5 Option (only appears on component ordered with this option)
 X = One-Digit Year Code
 YY = Digit Work Week
 M = Assembly Package Code

PIN CONNECTIONS



ORDERING INFORMATION

See detailed ordering and shipping information on page 9 of this data sheet.

FODM8801A, FODM8801B, FODM8801C

SAFETY AND INSULATION RATINGS (As per DIN EN/IEC 60747-5-5, this optocoupler is suitable for “safe electrical insulation” only within the safety limit data. Compliance with the safety ratings shall be ensured by means of protective circuits.)

Parameter		Characteristics
Installation Classifications per DIN VDE 0110/1.89 Table 1, For Rated Mains Voltage	<150 V _{RMS}	I-IV
	<300 V _{RMS}	I-III
Climatic Classification		40/125/21
Pollution Degree (DIN VDE 0110/1.89)		2
Comparative Tracking Index		175

Symbol	Parameter	Value	Unit
V _{PR}	Input-to-Output Test Voltage, Method A, V _{IORM} × 1.6 = V _{PR} , Type and Sample Test with t _m = 10 s, Partial Discharge < 5 pC	848	V _{peak}
	Input-to-Output Test Voltage, Method B, V _{IORM} × 1.875 = V _{PR} , 100% Production Test with t _m = 1 s, Partial Discharge < 5 pC	1060	V _{peak}
V _{IORM}	Maximum Working Insulation Voltage	565	V _{peak}
V _{IOTM}	Highest Allowable Over-Voltage	6000	V _{peak}
	External Creepage	≥5	mm
	External Clearance	≥5	mm
DTI	Distance Through Insulation (Insulation Thickness)	≥0.5	mm
T _S	Case Temperature (Note 1)	150	°C
I _{S,INPUT}	Input Current (Note 1)	200	mA
P _{S,OUTPUT}	Output Power (Note 1)	300	mW
R _{IO}	Insulation Resistance at T _S , V _{IO} = 500 V (Note 1)	>10 ⁹	Ω

1. Safety limit values – maximum values allowed in the event of a failure.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C, unless otherwise noted)

Symbol	Parameter	Value	Unit
TOTAL PACKAGE			
T _{STG}	Storage Temperature	-40 to +150	°C
T _{OPR}	Operating Temperature	-40 to +125	°C
T _J	Junction Temperature	-40 to +140	°C
T _{SOL}	Lead Solder Temperature	245 for 10 s	°C
EMITTER			
I _{F(average)}	Continuous Forward Current	20	mA
V _R	Reverse Input Voltage	6	V
P _{DLED}	Power Dissipation (Note 2, 4)	40	mW
DETECTOR			
I _{C(average)}	Continuous Collector Current	30	mA
V _{CEO}	Collector-Emitter Voltage	75	V
V _{ECO}	Emitter-Collector Voltage	7	V
P _{DC}	Collector Power Dissipation (Note 3, 4)	150	mW

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

2. Derate linearly from 73°C at a rate of 0.24 mW/°C.

3. Derate linearly from 73°C at a rate of 2.23 mW/°C.

4. Functional operation under these conditions is not implied. Permanent damage may occur if the device is subjected to conditions outside these ratings.

FODM8801A, FODM8801B, FODM8801C**RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Value	Unit
T_A	Operating Temperature	-40 to +125	°C
$V_{FL(OFF)}$	Input Low Voltage	-5.0 to +0.8	V
I_{FH}	Input High Forward Current	1 to 10	mA

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{ISO}	Input-Output Isolation Voltage	$f = 60 \text{ Hz}$, $t = 1 \text{ min.}$, $I_{I-O} \leq 10 \mu\text{A}$ (Note 5, 6)	3,750	-	-	VAC _{RMS}
R_{ISO}	Isolation Resistance	$V_{I-O} = 500 \text{ V}$ (Note 5)	10^{12}	-	-	Ω
C_{ISO}	Isolation Capacitance	$f = 1 \text{ MHz}$	-	0.3	0.5	pF

5. Device is considered a two-terminal device: pins 1 and 2 are shorted together and pins 3 and 4 are shorted together.

6. 3,750 VAC_{RMS} for 1 minute is equivalent to 4,500 VAC_{RMS} for 1 second.

ELECTRICAL CHARACTERISTICS Apply over all recommended conditions ($T_A = -40^\circ\text{C}$ to $+125^\circ\text{C}$ unless otherwise specified.)

All typical values are measured at $T_A = 25^\circ\text{C}$

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
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EMITTER

V_F	Forward Voltage	$I_F = 1 \text{ mA}$	1.00	1.35	1.80	V
$\Delta V_F / \Delta T_A$	Forward-Voltage Coefficient	$I_F = 1 \text{ mA}$	-	-1.6	-	mV/°C
I_R	Reverse Current	$V_R = 6 \text{ V}$	-	-	10	μA
C_T	Terminal Capacitance	$V = 0 \text{ V}$, $f = 1 \text{ MHz}$	-	30	-	pF

DETECTOR

BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 0.5 \text{ mA}$, $I_F = 0 \text{ mA}$	75	130	-	V
BV_{ECO}	Emitter-Collector Breakdown Voltage	$I_E = 100 \mu\text{A}$, $I_F = 0 \text{ mA}$	7	12	-	V
I_{CEO}	Collector Dark Current	$V_{CE} = 75 \text{ V}$, $I_F = 0 \text{ mA}$, $T_A = 25^\circ\text{C}$	-	-	100	nA
		$V_{CE} = 50 \text{ V}$, $I_F = 0 \text{ mA}$	-	-	50	μA
		$V_{CE} = 5 \text{ V}$, $I_F = 0 \text{ mA}$	-	-	30	μA
C_{CE}	Capacitance	$V_{CE} = 0 \text{ V}$, $f = 1 \text{ MHz}$	-	8	-	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

FODM8801A, FODM8801B, FODM8801C**TRANSFER CHARACTERISTICS** Apply over all recommended conditions ($T_A = -40^\circ\text{C}$ to $+125^\circ\text{C}$ unless otherwise specified.)All typical values are measured at $T_A = 25^\circ\text{C}$

Symbol	Parameter	Device	Conditions	Min	Typ	Max	Unit
CTR _{CE}	Current Transfer Ratio (Collector-Emitter)	FODM8801A	$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V} @ T_A = 25^\circ\text{C}$	80	120	160	%
			$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V}$	35	120	230	
			$I_F = 1.6\text{ mA}, V_{CE} = 5\text{ V}$	40	125	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 5\text{ V}$	45	138	–	
		FODM8801B	$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V} @ T_A = 25^\circ\text{C}$	130	195	260	
			$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V}$	65	195	360	
			$I_F = 1.6\text{ mA}, V_{CE} = 5\text{ V}$	70	202	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 5\text{ V}$	75	215	–	
		FODM8801C	$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V} @ T_A = 25^\circ\text{C}$	200	300	400	
			$I_F = 1.0\text{ mA}, V_{CE} = 5\text{ V}$	100	300	560	
			$I_F = 1.6\text{ mA}, V_{CE} = 5\text{ V}$	110	312	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 5\text{ V}$	115	330	–	
CTR _{CE(SAT)}	Saturated Current Transfer Ratio (Collector-Emitter)	FODM8801A	$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V} @ T_A = 25^\circ\text{C}$	65	108	150	%
			$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V}$	30	108	–	
			$I_F = 1.6\text{ mA}, V_{CE} = 0.4\text{ V}$	25	104	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 0.4\text{ V}$	20	92	–	
		FODM8801B	$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V} @ T_A = 25^\circ\text{C}$	90	168	245	
			$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V}$	45	168	–	
			$I_F = 1.6\text{ mA}, V_{CE} = 0.4\text{ V}$	40	155	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 0.4\text{ V}$	35	132	–	
		FODM8801C	$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V} @ T_A = 25^\circ\text{C}$	140	238	380	
			$I_F = 1.0\text{ mA}, V_{CE} = 0.4\text{ V}$	75	238	–	
			$I_F = 1.6\text{ mA}, V_{CE} = 0.4\text{ V}$	65	215	–	
			$I_F = 3.0\text{ mA}, V_{CE} = 0.4\text{ V}$	55	177	–	
V _{CE(SAT)}	Saturation Voltage	FODM8801A	$I_F = 1.0\text{ mA}, I_C = 0.3\text{ mA}$	–	0.17	0.40	V
			$I_F = 1.6\text{ mA}, I_C = 0.4\text{ mA}$	–	0.16	0.40	
			$I_F = 3.0\text{ mA}, I_C = 0.6\text{ mA}$	–	0.15	0.40	
		FODM8801B	$I_F = 1.0\text{ mA}, I_C = 0.45\text{ mA}$	–	0.17	0.40	
			$I_F = 1.6\text{ mA}, I_C = 0.6\text{ mA}$	–	0.16	0.40	
			$I_F = 3.0\text{ mA}, I_C = 1.0\text{ mA}$	–	0.16	0.40	
		FODM8801C	$I_F = 1.0\text{ mA}, I_C = 0.75\text{ mA}$	–	0.18	0.40	
			$I_F = 1.6\text{ mA}, I_C = 1.0\text{ mA}$	–	0.17	0.40	
			$I_F = 3.0\text{ mA}, I_C = 1.6\text{ mA}$	–	0.17	0.40	

FODM8801A, FODM8801B, FODM8801C

SWITCHING CHARACTERISTICS Apply over all recommended conditions ($T_A = -40^\circ\text{C}$ to $+125^\circ\text{C}$ unless otherwise specified). All typical values are measured at $T_A = 25^\circ\text{C}$

Symbol	Parameter	Device	Conditions	Min	Typ	Max	Unit
t_{ON}	Turn-On Time	All Devices	$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 0.75 \text{ k}\Omega$	1	6	20	μs
			$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 4.7 \text{ k}\Omega$	–	6	–	
t_{OFF}	Turn-Off Time	All Devices	$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 0.75 \text{ k}\Omega$	1	6	20	μs
			$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 4.7 \text{ k}\Omega$	–	40	–	
t_R	Output Rise Time (10% to 90%)	All Devices	$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 0.75 \text{ k}\Omega$	–	5	–	μs
t_F	Output Fall Time (90% to 10%)	All Devices	$I_F = 1.6 \text{ mA}$, $V_{CC} = 5 \text{ V}$, $R_L = 0.75 \text{ k}\Omega$	–	5.5	–	μs
CM_H	Common-Mode Rejection Voltage (Transient Immunity) – Output High	All Devices	$T_A = 25^\circ\text{C}$, $I_F = 0 \text{ mA}$, $V_O > 2.0 \text{ V}$, $R_L = 4.7 \text{ k}\Omega$, $V_{CM} = 1000 \text{ V}$ (Note 7), Figure 14	–	20	–	$\text{kV}/\mu\text{s}$
CM_L	Common-Mode Rejection Voltage (Transient Immunity) – Output Low	All Devices	$T_A = 25^\circ\text{C}$, $I_F = 1.6 \text{ mA}$, $V_O < 0.8 \text{ V}$, $R_L = 4.7 \text{ k}\Omega$, $V_{CM} = 1000 \text{ V}$ (Note 7), Figure 14	–	20	–	$\text{kV}/\mu\text{s}$

7. Common-mode transient immunity at output high is the maximum tolerable positive dV_{CM}/dt on the leading edge of the common-mode impulse signal, V_{CM} , to assure that the output remains high.

FODM8801A, FODM8801B, FODM8801C

TYPICAL PERFORMANCE CURVES

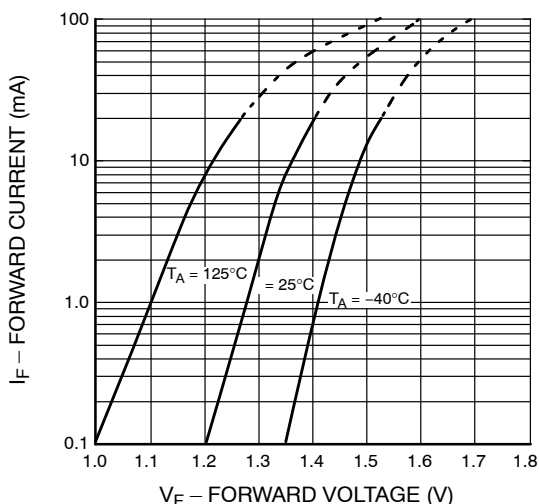


Figure 1. Forward Current vs. Forward Voltage

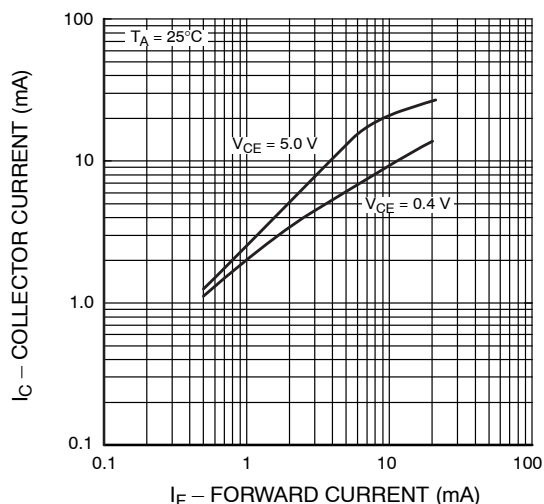


Figure 2. Collector Current vs. Forward Current

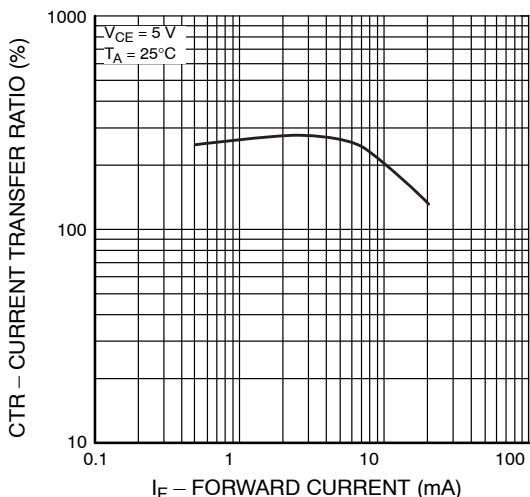


Figure 3. Current Transfer Ratio vs. Forward Current

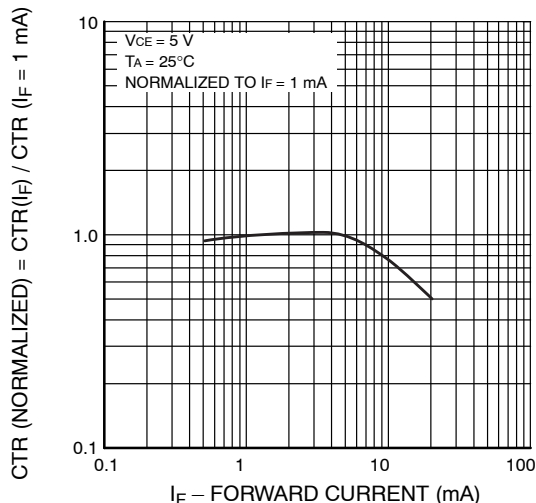


Figure 4. Normalized CTR vs. Forward Current

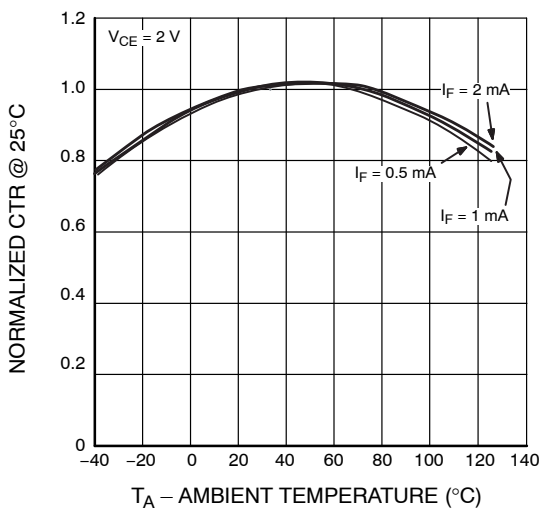


Figure 5. Normalized CTR vs. Ambient Temperature

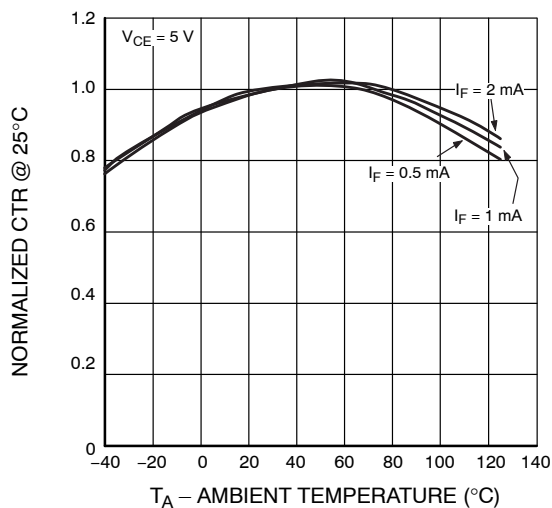


Figure 6. Normalized CTR vs. Ambient Temperature

FODM8801A, FODM8801B, FODM8801C

TYPICAL PERFORMANCE CURVES (continued)

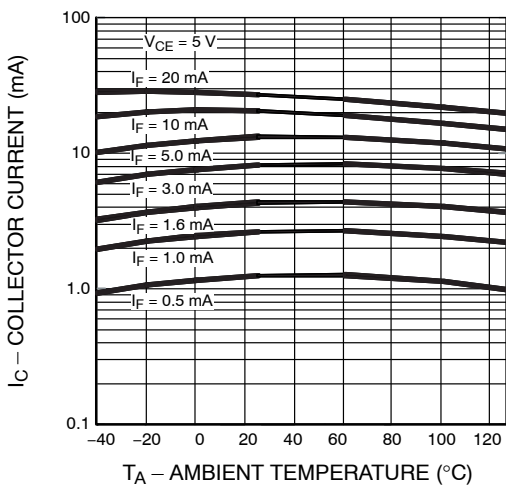


Figure 7. Collector Current vs. Ambient Temperature

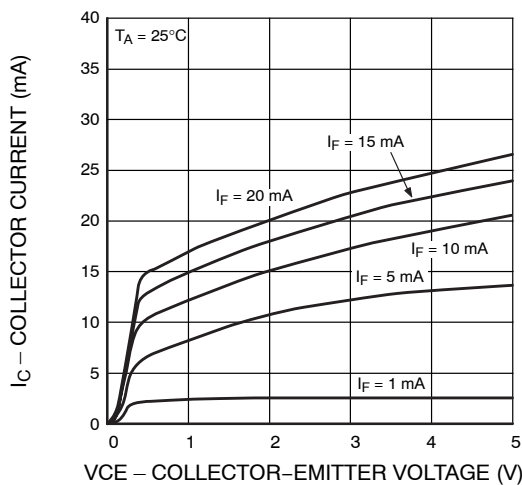


Figure 8. Collector Current vs. Collector-Emitter Voltage

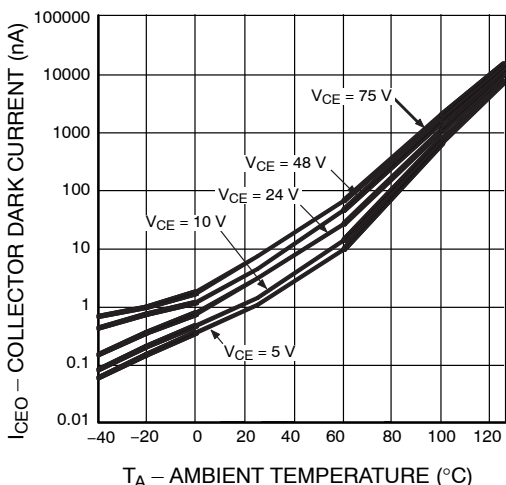


Figure 9. Collector Dark Current vs. Ambient Temperature

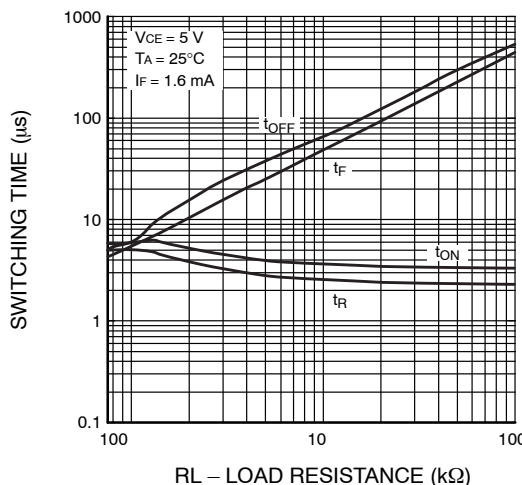


Figure 10. Switching Time vs. Load Resistance

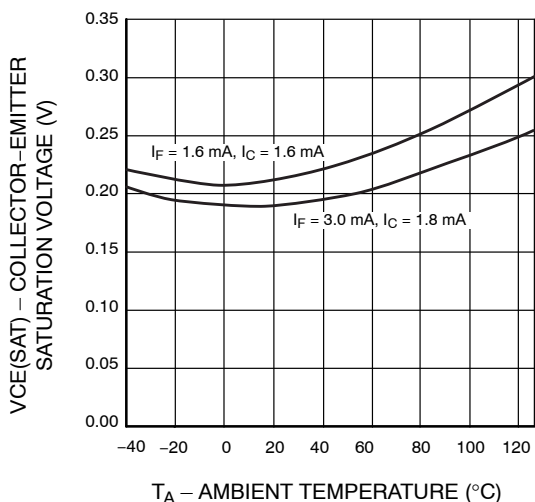


Figure 11. Collector-Emitter Saturation Voltage vs. Ambient Temperature

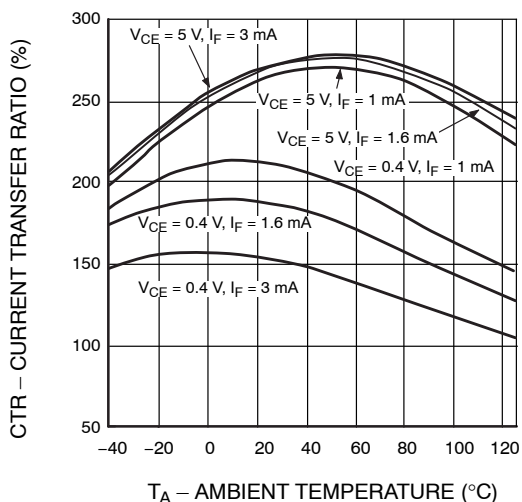


Figure 12. Current Transfer Ratio vs. Ambient Temperature

FODM8801A, FODM8801B, FODM8801C

TEST CIRCUITS

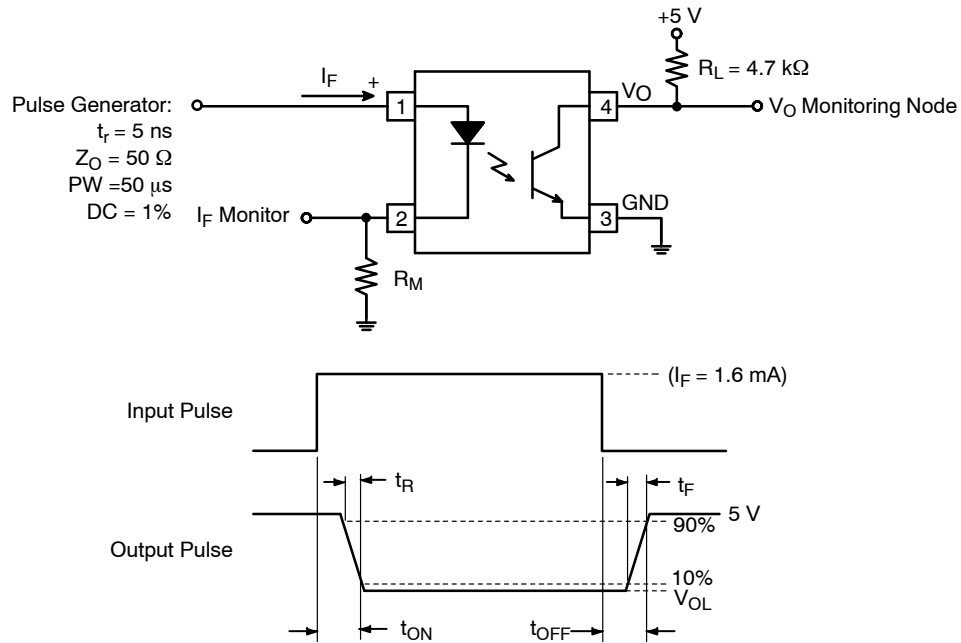


Figure 13. Test Circuit for Propagation Delay, Rise Time, and Fall Time

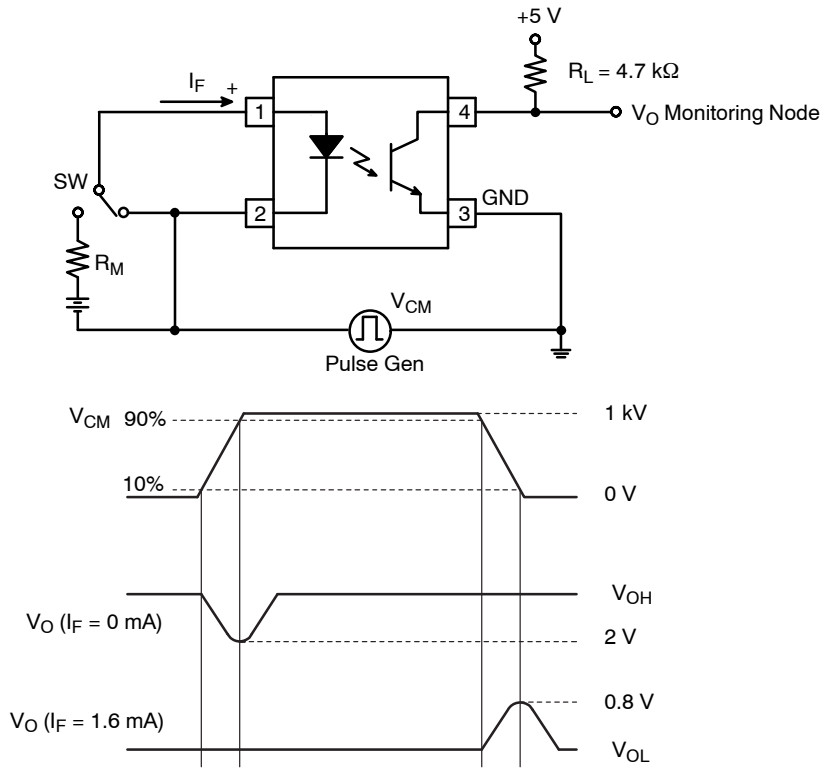
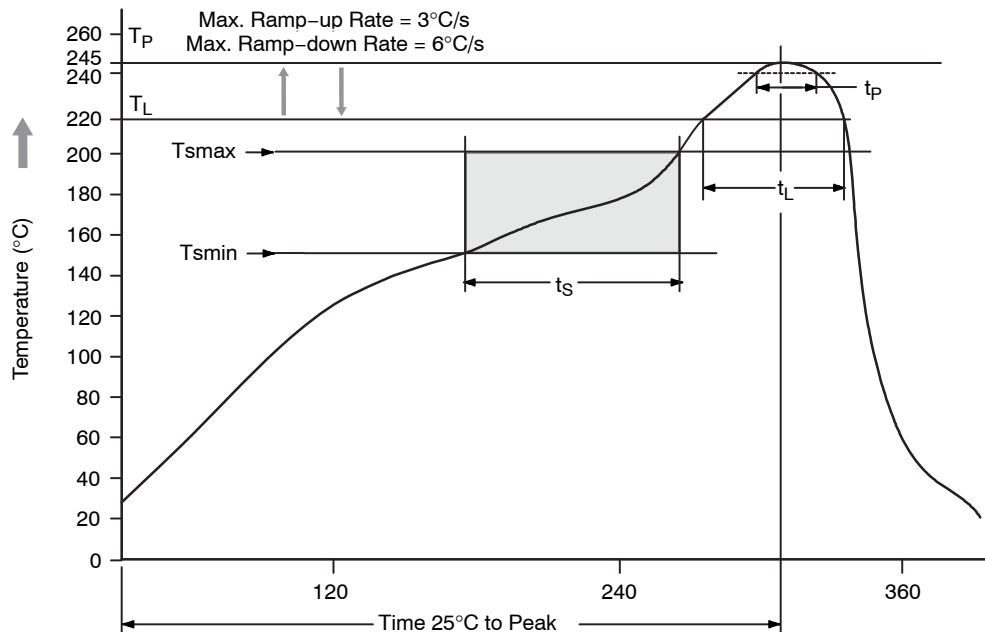


Figure 14. Test Circuit for Instantaneous Common-Mode Rejection Voltage

FODM8801A, FODM8801B, FODM8801C**REFLOW PROFILE****Figure 15. Reflow Profile****Table 1. REFLOW PROFILE**

Profile Feature	Pb-Free Assembly Profile
Temperature Minimum (T _{smin})	150°C
Temperature Maximum (T _{smax})	200°C
Time (t _s) from (T _{smin} to T _{smax})	60 – 120 seconds
Ramp-up Rate (t _L to t _p)	3°C/second maximum
Liquidous Temperature (T _L)	217°C
Time (t _L) Maintained Above (T _L)	60 – 150 seconds
Peak Body Package Temperature	245°C +0°C / -5°C
Time (t _p) within 5°C of 245°C	30 seconds
Ramp-down Rate (T _P to T _L)	6°C/second maximum
Time 25°C to Peak Temperature	8 minutes maximum

ORDERING INFORMATION

Part Number	Package	Shipping [†]
FODM8801A	Half Pitch Mini-Flat 4-Pin	150 Units / Tube
FODM8801AR2	Half Pitch Mini-Flat 4-Pin	2500 / Tape & Reel
FODM8801AV	Half Pitch Mini-Flat 4-Pin, DIN EN/IEC60747-5-5 Option	150 Units / Tube
FODM8801AR2V	Half Pitch Mini-Flat 4-Pin, DIN EN/IEC60747-5-5 Option	2500 / Tape & Reel

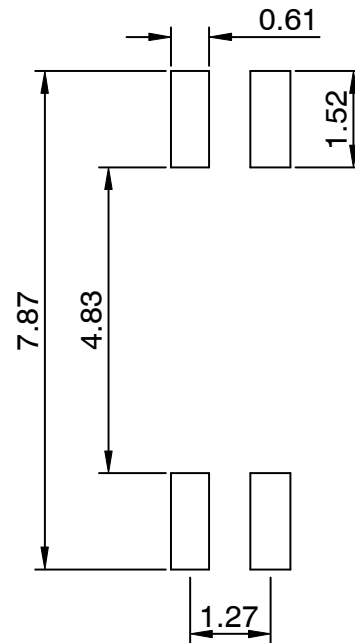
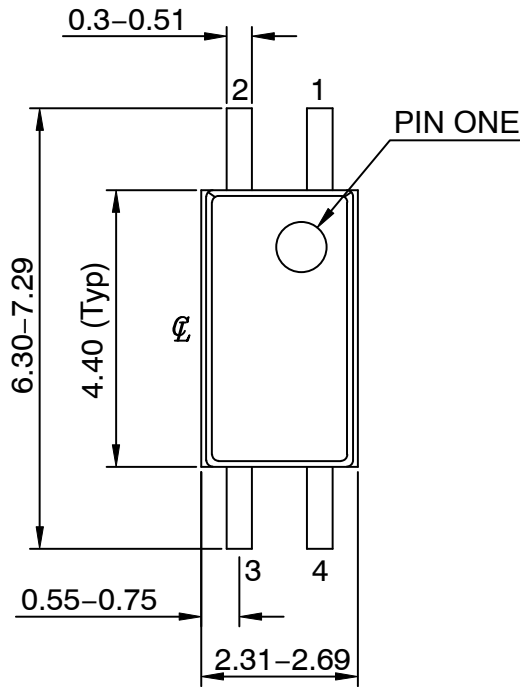
[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

8. The product orderable part number system listed in this table also applies to the FODM8801B, FODM8801C products.

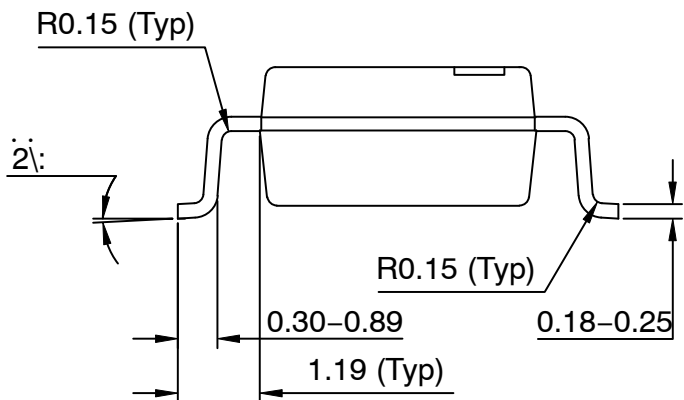
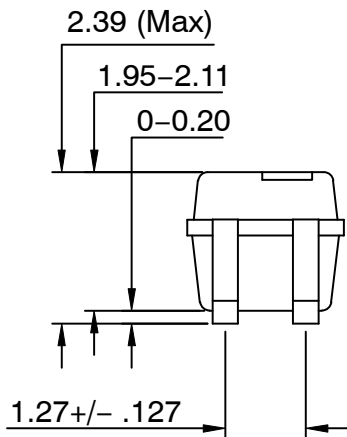
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MFP4 2.5X4.4, 1.27P
CASE 100AL
ISSUE O

DATE 31 AUG 2016



LAND PATTERN RECOMMENDATION



NOTES:

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