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# FOD060L, FOD260L

## 3.3V/5V High Speed-10 MBit/s

### Logic Gate Optocouplers

#### Features

- FOD060L in SO8 and FOD260L in 8-pin DIP
- Very high speed – 10 MBit/s
- Superior CMR — 50 kV/μs at 1,000V peak
- Fan-out of 8 over -40°C to +85°C
- Logic gate output
- Strobable output
- Wired OR-open collector
- Safety and regulatory approvals
  - UL1577
  - DIN EN/IEC 60747-5-2

- Line receiver, data transmission
- Data multiplexing
- Switching power supplies
- Pulse transformer replacement
- Computer-peripheral interface

#### Description

These optocouplers consist of an AlGaAs LED, optically coupled to a very high speed integrated photo-detector logic gate. Devices include a strobable output. This output features an open collector, thereby permitting wired OR outputs. The coupled parameters are guaranteed over the temperature range of -40°C to +85°C. A maximum input signal of 5 mA will provide a minimum output sink current of 13 mA (fan out of 8). An internal noise shield provides superior common mode rejection of typically 50 kV/μs at 1,000V common mode.

#### Applications

- Ground loop elimination
- LSTTL to TTL, LSTTL or 5-volt CMOS

#### Package



#### Truth Table (Positive Logic)

Input	Enable	Output
On	H	L
Off	H	H
On	L	H
Off	L	H
On*	NC*	L*
Off*	NC*	H*

\*Devices with pin 7 not connected.

A 0.1 μF bypass capacitor must be connected between pins 5 and 8. (See Note 1)

**Absolute Maximum Ratings** (No derating required up to 85°C)

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Value	Units
T <sub>STG</sub>	Storage Temperature	-40 to +125	°C
T <sub>OPR</sub>	Operating Temperature	-40 to +85	°C
<b>EMITTER</b>			
I <sub>F</sub>	DC/Average Forward Input Current	50	mA
V <sub>E</sub>	Enable Input Voltage, not to exceed V <sub>CC</sub> by more than 500 mV	V <sub>CC</sub> + 0.5V	V
V <sub>R</sub>	Reverse Input Voltage	5.0	V
P <sub>I</sub>	Power Dissipation	45	mW
<b>DETECTOR</b>			
V <sub>CC</sub> (1 minute max)	Supply Voltage	7.0	V
I <sub>O</sub>	Output Current	50	mA
V <sub>O</sub>	Output Voltage	7.0	V
P <sub>O</sub>	Collector Output Power Dissipation	85	mW

**Recommended Operating Conditions**

Symbol	Parameter	Min.	Max.	Units
I <sub>FL</sub>	Input Current, Low Level	0	250	μA
I <sub>FH</sub>	Input Current, High Level	*6.3	15	mA
V <sub>CC</sub>	Supply Voltage, Output	3.0	5.5	V
V <sub>EL</sub>	Enable Voltage, Low Level	0	0.8	V
V <sub>EH</sub>	Enable Voltage, High Level	2.0	V <sub>CC</sub>	V
T <sub>A</sub>	Operating Temperature	-40	+85	°C
N	Fan Out (TTL load)		8	
R <sub>L</sub>	Output Pull-up Resistor	330	4K	Ω

\*6.3 mA is a guard banded value which allows for at least 20% CTR degradation. Initial input current threshold value is 5.0 mA or less.

**Electrical Characteristics** ( $T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$  unless otherwise specified. Typical value is measured at  $T_A = 25^\circ\text{C}$  and  $V_{CC} = 3.3\text{V}$ )

### Individual Component Characteristics

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
<b>EMITTER</b>						
$V_F$	Input Forward Voltage	$I_F = 10\text{ mA}$		1.4	1.8	V
					$T_A = 25^\circ\text{C}$	
$B_{VR}$	Input Reverse Breakdown Voltage	$I_R = 10\ \mu\text{A}$	5.0			V
$C_{IN}$	Input Capacitance	$V_F = 0, f = 1\text{ MHz}$		6.0		pF
$\Delta V_F/\Delta T_A$	Input Diode Temperature Coefficient	$I_F = 10\text{ mA}$		-1.9		mV/ $^\circ\text{C}$
<b>DETECTOR</b>						
$I_{CCH}$	High Level Supply Current	$V_E = 0.5\text{ V}, I_F = 0\text{ mA}, V_{CC} = 3.3\text{ V}$		3.5	7	mA
$I_{CCL}$	Low Level Supply Current	$V_E = 0.5\text{ V}, I_F = 0\text{ mA}, V_{CC} = 3.3\text{ V}$		3.2	10	mA
$I_{EL}$	Low Level Enable Current	$V_{CC} = 3.3\text{ V}, V_E = 0.5\text{ V}$			-1.6	mA
$I_{EH}$	High Level Enable Current	$V_{CC} = 3.3\text{ V}, V_E = 2.0\text{ V}$			-1.6	mA
$V_{EH}$	High Level Enable Voltage	$V_{CC} = 3.3\text{ V}, I_F = 10\text{ mA}$	2.0	1.27		V
$V_{EL}$	Low Level Enable Voltage	$V_{CC} = 3.3\text{ V}, I_F = 10\text{ mA}$ (Note 2)		1.18	0.8	V

**Switching Characteristics** ( $T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$ ,  $V_{CC} = 3.3\text{ V}$ ,  $I_F = 7.5\text{ mA}$  unless otherwise specified. Typical value is measured at  $T_A = 25^\circ\text{C}$  and  $V_{CC} = 3.3\text{ V}$ )

Symbol	AC Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
$T_{PLH}$	Propagation Delay Time to Output High Level	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 9) (Note 3)		65	90	ns
$T_{PHL}$	Propagation Delay Time to Output Low Level	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 9) (Note 4)		43	75	ns
$ T_{PHL} - T_{PLH} $	Pulse Width Distortion	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 9)		23	25	ns
$t_{PSK}$	Propagation Delay Skew	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Note 5)		31	40	ns
$t_r$	Output Rise Time (10-90%)	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 9)(Note 6)		22		ns
$t_f$	Output Fall Time (90-10%)	$R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 12) (Note 7)		3		ns
$t_{ELH}$	Enable Propagation Delay Time to Output High Level	$V_{EH} = 3\text{ V}, R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 10) (Note 8)		47		ns
$t_{EHL}$	Enable Propagation Delay Time to Output Low Level	$V_{EH} = 3\text{ V}, R_L = 350\ \Omega, C_L = 15\text{ pF}$ (Fig. 10) (Note 9)		27		ns
$CM_H$	Common Mode Transient Immunity (at Output High Level)	$R_L = 350\ \Omega, T_A = 25^\circ\text{C}, I_F = 0\text{ mA}, V_{OH}(\text{Min.}) = 2.0\text{ V},  V_{CM}  = 1,000\text{ V}$ (Fig. 11) (Note 10)	25,000	50,000		V/ $\mu\text{s}$
$CM_L$	Common Mode Transient Immunity (at Output Low Level)	$R_L = 350\ \Omega, T_A = 25^\circ\text{C}, I_F = 7.5\text{ mA}, V_{OL}(\text{Max.}) = 0.8\text{ V},  V_{CM}  = 1,000\text{ V}$ (Fig. 11) (Note 11)	25,000	50,000		V/ $\mu\text{s}$

**Transfer Characteristics** ( $T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$  Unless otherwise specified. Typical value is measured at  $T_A = 25^\circ\text{C}$  and  $V_{CC} = 3.3\text{V}$ )

Symbol	DC Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
$I_{OH}$	High Level Output Current	$I_F = 250\ \mu\text{A}$ , $V_{CC} = 3.3\ \text{V}$ , $V_O = 3.3\ \text{V}$ , $V_E = 2.0\ \text{V}$ (Note 2)		0.01	50	$\mu\text{A}$
$V_{OL}$	Low Level Output Voltage	$V_{CC} = 3.3\ \text{V}$ , $I_F = 5\ \text{mA}$ , $I_{OL} = 13\ \text{mA}$ , $V_E = 2.0\ \text{V}$ (Note 2)		0.3	0.6	V
$I_{FT}$	Input Threshold Current	$V_{CC} = 3.3\ \text{V}$ , $V_O = 0.6\ \text{V}$ , $I_{OL} = 13\ \text{mA}$ , $V_E = 2.0\ \text{V}$ (Note 2)		1	5	mA

**Isolation Characteristics** ( $T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$  Unless otherwise specified. Typical value is measured at  $T_A = 25^\circ\text{C}$  and  $V_{CC} = 3.3\text{V}$ )

Symbol	Characteristics	Test Conditions	Min.	Typ.	Max.	Unit
$I_{I-O}$	Input-Output Insulation Leakage Current	Relative humidity = 45%, $T_A = 25^\circ\text{C}$ , $t = 5\ \text{s}$ , $V_{I-O} = 3000\ \text{VDC}$ (Note 12)			1.0	$\mu\text{A}$
$V_{ISO}$	Withstand Insulation Test Voltage  FOD060L  FOD260L	$I_{IO} \leq 2\ \mu\text{A}$ , $R_H < 50\%$ , $T_A = 25^\circ\text{C}$ , $t = 1\ \text{min.}$ (Note 12)				$V_{RMS}$
			3750			
			5000			
$R_{I-O}$	Resistance (Input to Output)	$V_{I-O} = 500\ \text{V}$ (Note 12)		$10^{12}$		$\Omega$
$C_{I-O}$	Capacitance (Input to Output)	$f = 1\ \text{MHz}$ (Note 12)		0.6		pF

#### Notes

- The  $V_{CC}$  supply to each optoisolator must be bypassed by a  $0.1\ \mu\text{F}$  capacitor or larger. This can be either a ceramic or solid tantalum capacitor with good high frequency characteristic and should be connected as close as possible to the package  $V_{CC}$  and GND pins of each device.
- Enable Input – No pull up resistor required as the device has an internal pull up resistor.
- $t_{PLH}$  – Propagation delay is measured from the 3.75 mA level on the HIGH to LOW transition of the input current pulse to the 1.5V level on the LOW to HIGH transition of the output voltage pulse.
- $t_{PHL}$  – Propagation delay is measured from the 3.75 mA level on the LOW to HIGH transition of the input current pulse to the 1.5V level on the HIGH to LOW transition of the output voltage pulse.
- $t_{PSK}$  is the worst case difference between  $t_{PHL}$  and  $t_{PLH}$  for any devices at the stated test conditions.
- $t_r$  – Rise time is measured from the 90% to the 10% levels on the LOW to HIGH transition of the output pulse.
- $t_f$  – Fall time is measured from the 10% to the 90% levels on the HIGH to LOW transition of the output pulse.
- $t_{ELH}$  – Enable input propagation delay is measured from the 1.5V level on the HIGH to LOW transition of the input voltage pulse to the 1.5V level on the LOW to HIGH transition of the output voltage pulse.
- $t_{EHL}$  – Enable input propagation delay is measured from the 1.5V level on the LOW to HIGH transition of the input voltage pulse to the 1.5V level on the HIGH to LOW transition of the output voltage pulse.
- $CM_H$  – The maximum tolerable rate of rise of the common mode voltage to ensure the output will remain in the high state (i.e.,  $V_{OUT} > 2.0\ \text{V}$ ). Measured in volts per microsecond (V/ $\mu\text{s}$ ).
- $CM_L$  – The maximum tolerable rate of fall of the common mode voltage to ensure the output will remain in the low output state (i.e.,  $V_{OUT} < 0.8\ \text{V}$ ). Measured in volts per microsecond (V/ $\mu\text{s}$ ).
- Device considered a two-terminal device: Pins 1, 2, 3 and 4 shorted together, and Pins 5, 6, 7 and 8 shorted together.

## Typical Performance Curves

**Fig. 1 Input Forward Current vs. Forward Voltage**



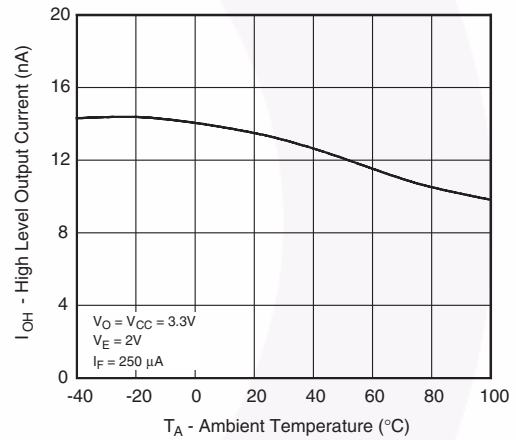
**Fig. 2 Input Threshold Current vs. Ambient Temperature**



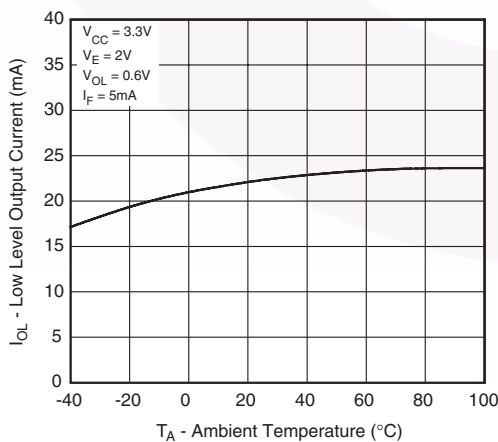
**Fig. 3 Low Level Output Voltage vs. Ambient Temperature**



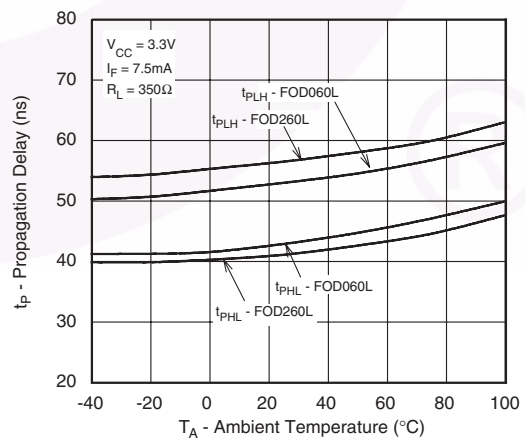
**Fig. 4 High Level Output Current vs. Ambient Temperature**



**Fig. 5 Low Level Output Current vs. Ambient Temperature**



**Fig. 6 Propagation Delay vs. Ambient Temperature**



## Typical Performance Curves

**Fig. 7 Rise and Fall Times vs. Ambient Temperature**



**Fig. 8 Pulse Width Distortion vs. Ambient Temperature**

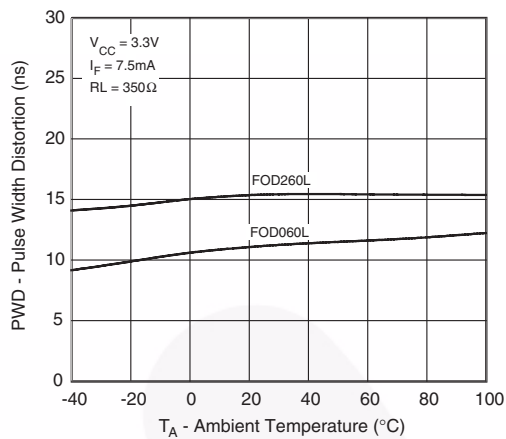




Fig. 9 Test Circuit and Waveforms for  $t_{PLH}$ ,  $t_{PHL}$ ,  $t_r$  and  $t_f$ .



Fig. 10 Test Circuit  $t_{EHL}$  and  $t_{ELH}$ .



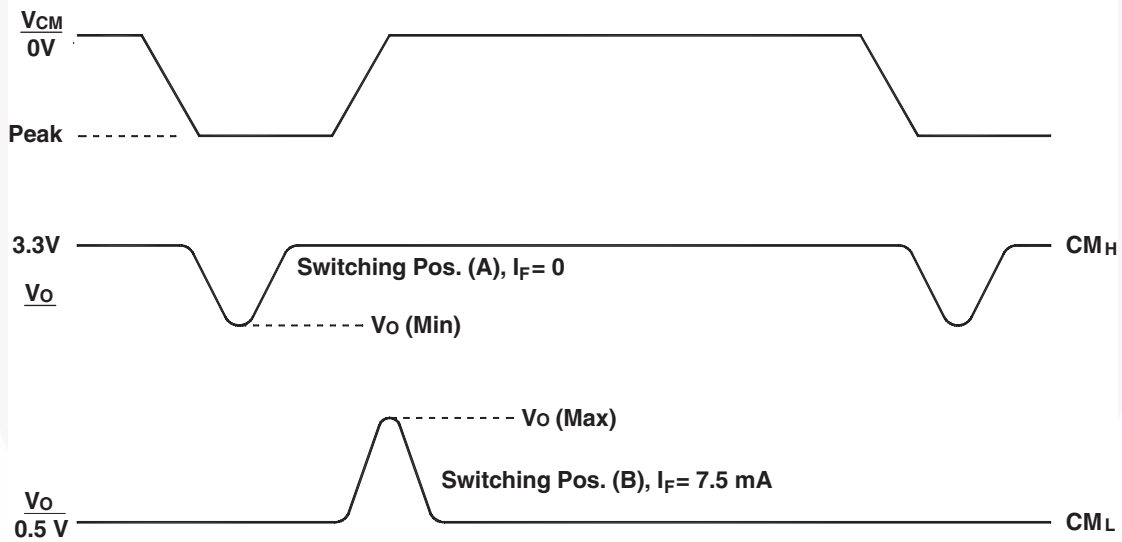


Fig. 11 Test Circuit Common Mode Transient Immunity

## Ordering Information

Part Number	Package	Packing Method
FOD060L	Small outline 8-pin	Tube (50 units per tube)
FOD060LR2	Small outline 8-pin	Tape and Reel (2,500 units per reel)
FOD260L	DIP 8-Pin	Tube (50 units per tube)
FOD260LS	SMT 8-Pin (Lead Bend)	Tube (50 units per tube)
FOD260LSD	SMT 8-Pin (Lead Bend)	Tape and Reel (1,000 units per reel)
FOD260LV	DIP 8-Pin, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LSV	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LSDV	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-2 option	Tape and Reel (1,000 units per reel)
FOD260LTV	DIP 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LTSV	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-2 option	Tube (50 units per tube)
FOD260LTSR2	SMT 8-Pin, 0.4" Lead Spacing	Tape and Reel (700 units per reel)
FOD260LTSR2V	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-2 option	Tape and Reel (700 units per reel)

## Marking Information

### Small Outline



Definitions	
1	Fairchild logo
2	Device number
3	One digit year code, e.g., '8'
4	Two digit work week ranging from '01' to '53'
5	Assembly package code

## Marking Information (Continued)

### DIP and SMT



#### Definitions

1	Fairchild logo
2	Device number
3	VDE mark (Note: Only appears on parts ordered with DIN EN/IEC 60747-5-2 option – See order entry table)
4	Two digit year code, e.g., '11'
5	Two digit work week ranging from '01' to '53'
6	Assembly package code

### Carrier Tape Specification

#### Small Outline



**Note:**

All dimensions are in millimeters.



## Carrier Tape Specification (Continued)

### Option S

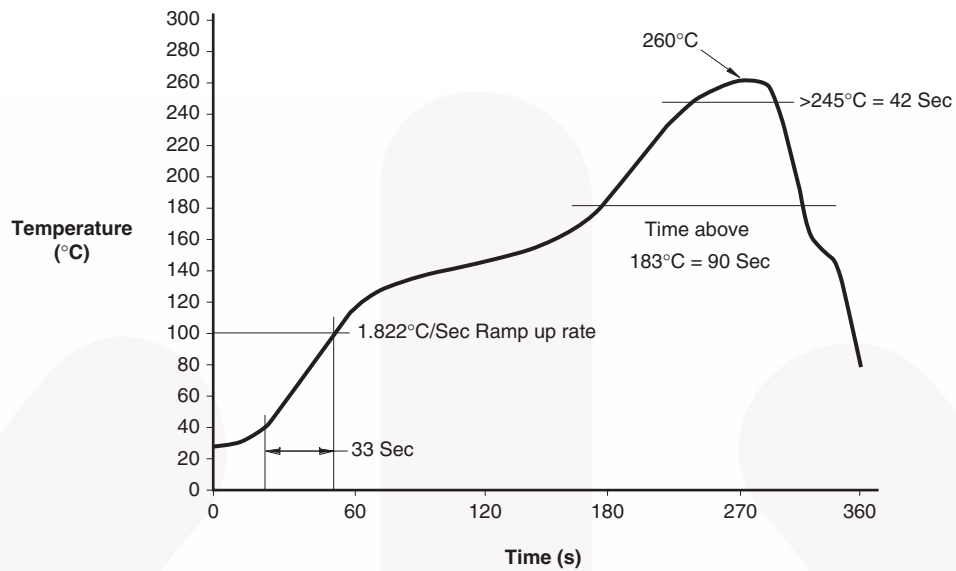


Symbol	Description	Dimension in mm
W	Tape Width	16.0 ± 0.3
t	Tape Thickness	0.30 ± 0.05
P <sub>0</sub>	Sprocket Hole Pitch	4.0 ± 0.1
D <sub>0</sub>	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	7.5 ± 0.1
P <sub>2</sub>		2.0 ± 0.1
P	Pocket Pitch	12.0 ± 0.1
A <sub>0</sub>	Pocket Dimensions	10.30 ± 0.20
B <sub>0</sub>		10.30 ± 0.20
K <sub>0</sub>		4.90 ± 0.20
W <sub>1</sub>	Cover Tape Width	13.2 ± 0.2
d	Cover Tape Thickness	0.1 max
	Max. Component Rotation or Tilt	10°
R	Min. Bending Radius	30



# Reflow Profile

## Small Outline



## Reflow Profile (Continued)

### DIP and SMT



Profile Feature	Pb-Free Assembly Profile
Temperature Min. (T <sub>smín</sub> )	150°C
Temperature Max. (T <sub>smáx</sub> )	200°C
Time (t <sub>s</sub> ) from (T <sub>smín</sub> to T <sub>smáx</sub> )	60–120 seconds
Ramp-up Rate (t <sub>L</sub> to t <sub>p</sub> )	3°C/second max.
Liquidous Temperature (T <sub>L</sub> )	217°C
Time (t <sub>L</sub> ) Maintained Above (T <sub>L</sub> )	60–150 seconds
Peak Body Package Temperature	260°C +0°C / -5°C
Time (t <sub>p</sub> ) within 5°C of 260°C	30 seconds
Ramp-down Rate (T <sub>p</sub> to T <sub>L</sub> )	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.







NOTES:

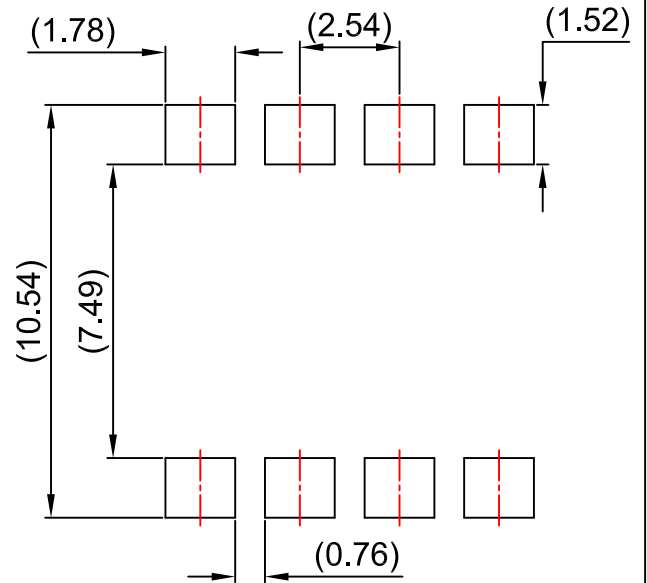
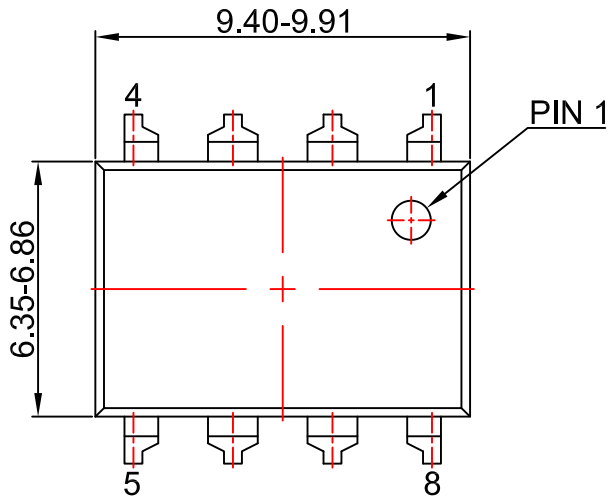
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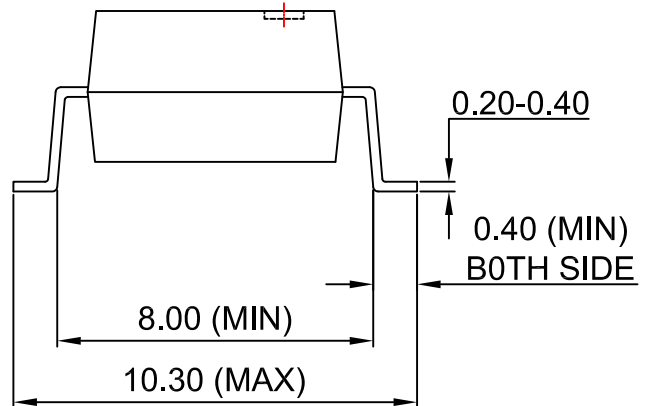


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