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January 2016

Single-Channel: 6N137M, HCPL2601M, HCPL2611M Dual-Channel: HCPL2630M, HCPL2631M 8-Pin DIP High-Speed 10 MBit/s Logic Gate Optocouplers

Features

- Very High Speed – 10 MBit/s
- Superior CMR – 10 kV/μs
- Fan-out of 8 Over -40°C to +85°C
- Logic Gate Output
- Strobable Output
- Wired OR-open Collector
- Safety and Regulatory Approvals
 - UL1577, 5,000 VAC_{RMS} for 1 Minute
 - DIN EN/IEC60747-5-5

Applications

- Ground Loop Elimination
- LSTTL to TTL, LSTTL or 5 V CMOS
- Line Receiver, Data Transmission
- Data Multiplexing
- Switching Power Supplies
- Pulse Transformer Replacement
- Computer-peripheral Interface

Description

The 6N137M, HCPL2601M, HCPL2611M single-channel and HCPL2630M, HCPL2631M dual-channel optocouplers consist of a 850 nm AlGaAs LED, optically coupled to a very high speed integrated photo-detector logic gate with a strobable output. This output features an open collector, thereby permitting wired OR outputs. The switching 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 10 kV/μs. The HCPL2601M and HCPL2631M has a minimum CMR of 5 kV/μs. The HCPL2611M has a minimum CMR of 10 kV/μs.

Schematics



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

Figure 1. Schematics

Package Outlines

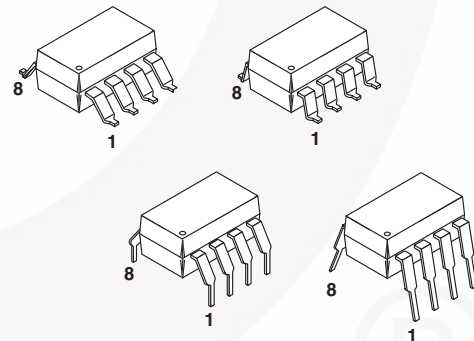


Figure 2. Package Options

Truth Table (Positive Logic)

Input	Enable	Output
H	H	L
L	H	H
H	L	H
L	L	H
H	NC	L
L	NC	H

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-IV
	< 450 V _{RMS}	I-III
	< 600 V _{RMS}	I-III
Climatic Classification	40/100/21	
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	1,335	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	1,669	V _{peak}
V _{IORM}	Maximum Working Insulation Voltage	890	V _{peak}
V _{IOTM}	Highest Allowable Over-Voltage	6,000	V _{peak}
	External Creepage	≥ 8.0	mm
	External Clearance	≥ 7.4	mm
	External Clearance (for Option TV, 0.4" Lead Spacing)	≥ 10.16	mm
DTI	Distance Through Insulation (Insulation Thickness)	≥ 0.5	mm
T _S	Case Temperature ⁽²⁾	150	°C
I _{S,INPUT}	Input Current ⁽²⁾	200	mA
P _{S,OUTPUT}	Output Power (Duty Factor ≤ 2.7%) ⁽²⁾	300	mW
R _{IO}	Insulation Resistance at T _S , V _{IO} = 500 V ⁽²⁾	> 10 ⁹	Ω

Notes:

- The V_{CC} supply to each optoisolator must be bypassed by a 0.1 μF 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.
- Safety limit value - maximum values allowed in the event of a failure.

Absolute Maximum Ratings

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. $T_A = 25^\circ\text{C}$ unless otherwise specified.

Symbol	Parameter	Value	Unit	
T_{STG}	Storage Temperature	-40 to +125	$^\circ\text{C}$	
T_{OPR}	Operating Temperature	-40 to +100	$^\circ\text{C}$	
T_J	Junction Temperature	-40 to +125	$^\circ\text{C}$	
T_{SOL}	Lead Solder Temperature	260 for 10 sec	$^\circ\text{C}$	
Symbol	Parameter	Device	Value	Unit
EMITTER				
I_F (avg)	DC/Average Forward Input Current Per Channel	Single Channel	50	mA
		Dual Channel	30	
V_E	Enable Input Voltage Not to Exceed V_{CC} by more than 500 mV	Single Channel	5.5	V
V_R	Reverse Input Voltage Per Channel	All	5.0	V
P_I	Input Power Dissipation Per Channel	Single Channel	100	mW
		Dual Channel	45	
DETECTOR				
V_{CC}	Supply Voltage	All	-0.5 to 7.0	V
I_O (avg)	Average Output Current Per Channel	All	25	mA
I_O (pk)	Peak Output Current Per Channel	All	50	mA
V_O	Output Voltage Per Channel	All	-0.5 to 7.0	V
P_O	Output Power Dissipation Per Channel	Single Channel	85	mW
		Dual Channel	60	

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Unit
V_{CC}	Supply Voltage	4.5	5.5	V
I_{FL}	Input Current, Low Level	0	250	μA
I_{FH}	Input Current, High Level	6.3 ⁽³⁾	20.0	mA
V_{EL}	Enable Voltage, Low Level	0	0.8	V
V_{EH}	Enable Voltage, High Level	2.0	V_{CC}	V
T_A	Ambient Operating Temperature	-40	+85	$^\circ\text{C}$
N	Fan Out (TTL load)		8	

Note:

- 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

Individual Component Characteristics ($V_{CC} = 5.5\text{ V}$, $T_A = 0^\circ\text{C}$ to 70°C unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Typ.	Max.	Unit
EMITTER							
V_F	Input Forward Voltage	All	$I_F = 10\text{ mA}$, $T_A = 25^\circ\text{C}$		1.45	1.70	V
			$I_F = 10\text{ mA}$			1.80	
B_{VR}	Input Reverse Breakdown Voltage	All	$I_R = 10\ \mu\text{A}$	5.0			V
C_{IN}	Input Capacitance	All	$V_F = 0$, $f = 1\text{ MHz}$		60		pF
$\Delta V_F / \Delta T_A$	Temperature Coefficient of Forward Voltage	All	$I_F = 10\text{ mA}$		-1.4		mV/ $^\circ\text{C}$
DETECTOR							
I_{CCL}	Logic Low Supply Current	Single Channel	$I_F = 10\text{ mA}$, $V_O = \text{Open}$, $V_E = 0.5\text{ V}$		8	13	mA
		Dual Channel	$I_{F1} = I_{F2} = 10\text{ mA}$, $V_O = \text{Open}$		14	21	
I_{CCH}	Logic High Supply Current	Single Channel	$I_F = 0\text{ mA}$, $V_O = \text{Open}$, $V_E = 0.5\text{ V}$		6	10	mA
		Dual Channel	$I_F = 0\text{ mA}$, $V_O = \text{Open}$,		10	15	
I_{EL}	Low Level Enable Current	Single Channel	$V_E = 0.5\text{ V}$		-0.7	-1.6	mA
I_{EH}	High Level Enable Current	Single Channel	$V_E = 2.0\text{ V}$		-0.5	-1.6	mA
V_{EL}	Low Level Enable Voltage	Single Channel	$I_F = 10\text{ mA}^{(4)}$			0.8	V
V_{EH}	High Level Enable Voltage	Single Channel	$I_F = 10\text{ mA}$	2.0			V

Note:

4. Enable Input – No pull up resistor required as the device has an internal pull up resistor.

Transfer Characteristics ($V_{CC} = 5.5\text{ V}$, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Typ.	Max.	Unit
I_{FT}	Input Threshold Current	All	$V_O = 0.6\text{ V}$, $V_E = 2.0\text{ V}$, $I_{OL} = 13\text{ mA}$		3	5	mA
I_{OH}	HIGH Level Output Current	All	$V_O = 5.5\text{ V}$, $I_F = 250\ \mu\text{A}$, $V_E = 2.0\text{ V}$			100	μA
V_{OL}	LOW Level Output Voltage	All	$I_F = 5\text{ mA}$, $V_E = 2.0\text{ V}$, $I_{OL} = 13\text{ mA}$		0.4	0.6	V

Electrical Characteristics (Continued)

Switching Characteristics ($V_{CC} = 5\text{ V}$, $I_F = 7.5\text{ mA}$, $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Typ.	Max.	Unit
t_{PHL}	Propagation Delay Time to Logic LOW	All	$R_L = 350\ \Omega$, $C_L = 15\text{ pF}$, $T_A = 25^\circ\text{C}^{(5)}$ (Fig. 14)	25	40	75	ns
			$R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(6)}$ (Fig. 14)			100	
t_{PLH}	Propagation Delay Time to Logic HIGH	All	$R_L = 350\ \Omega$, $C_L = 15\text{ pF}$, $T_A = 25^\circ\text{C}^{(6)}$ (Fig. 14)	20	40	75	ns
			$R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(6)}$ (Fig. 14)			100	
$ t_{PHL} - t_{PLH} $	Pulse Width Distortion	All	$R_L = 350\ \Omega$, $C_L = 15\text{ pF}$ (Fig. 14)		1	35	ns
t_R	Output Rise Time (10% to 90%)	All	$R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(7)}$ (Fig. 14)		30		ns
t_F	Output Fall Time (90% to 10%)	All	$R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(8)}$ (Fig. 14)		10		ns
t_{EHL}	Enable Propagation Delay Time to Output LOW Level	Single Channel	$V_{EH} = 3.5\text{ V}$, $R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(9)}$ (Fig. 15)		15		ns
t_{ELH}	Enable Propagation Delay Time to Output HIGH Level	Single Channel	$V_{EH} = 3.5\text{ V}$, $R_L = 350\ \Omega$, $C_L = 15\text{ pF}^{(10)}$ (Fig. 15)		15		ns
$ CM_H $	Common Mode Transient Immunity at Logic High	6N137M, HCPL2630M	$I_F = 0\text{ mA}$, $V_{CM} = 50\text{ V}_{PEAK}$, $R_L = 350\ \Omega$, $T_A = 25^\circ\text{C}^{(11)}$ (Fig. 16)		10,000		V/ μs
		HCPL2601M, HCPL2631M		5000	10,000		
		HCPL2611M		10,000	15,000		
$ CM_L $	Common Mode Transient Immunity at Logic Low	6N137M, HCPL2630M	$V_{CM} = 50\text{ V}_{PEAK}$, $R_L = 350\ \Omega$, $T_A = 25^\circ\text{C}^{(11)}$ (Fig. 16)		10,000		V/ μs
		HCPL2601M, HCPL2631M		5000	10,000		
		HCPL2611M		10,000	15,000		

Notes:

- 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 1.5 V level on the HIGH to LOW transition of the output voltage pulse.
- 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 1.5 V level on the LOW to HIGH transition of the output voltage pulse.
- 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_{EHL} – Enable input propagation delay is measured from the 1.5 V level on the LOW to HIGH transition of the input voltage pulse to the 1.5 V level on the HIGH to LOW transition of the output voltage pulse.
- t_{ELH} – Enable input propagation delay is measured from the 1.5 V level on the HIGH to LOW transition of the input voltage pulse to the 1.5 V level on the LOW to HIGH transition of the output voltage pulse.
- Common mode transient immunity in logic high level is the maximum tolerable (positive) dV_{cm}/dt on the leading edge of the common mode pulse signal, V_{CM} , to assure that the output will remain in a logic high state (i.e., $V_O > 2.0\text{ V}$). Common mode transient immunity in logic low level is the maximum tolerable (negative) dV_{cm}/dt on the trailing edge of the common mode pulse signal, V_{CM} , to assure that the output will remain in a logic low state (i.e., $V_O < 0.8\text{ V}$).

Electrical Characteristics (Continued)

Isolation Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise specified.)

Symbol	Parameter	Device	Test Conditions	Min.	Typ.	Max.	Unit
V_{ISO}	Withstand Insulation Test Voltage	All	Relative Humidity $\leq 50\%$, $I_{\text{I-O}} \leq 10 \mu\text{A}$, $t = 1 \text{ min}$, $f = 50 \text{ Hz}^{(12)(13)}$	5,000			VAC_{RMS}
$R_{\text{I-O}}$	Resistance (Input to Output)	All	$V_{\text{I-O}} = 500 \text{ V}_{\text{DC}}^{(12)}$		10^{11}		Ω
$C_{\text{I-O}}$	Capacitance (Input to Output)	All	$f = 1 \text{ MHz}$, $V_{\text{I-O}} = 0 \text{ V}_{\text{DC}}^{(12)}$		1		pF
$I_{\text{I-O}}$	Input-Output Insulation Leakage Current	All	Relative Humidity $\leq 45\%$, $V_{\text{I-I}} = 3000 \text{ V}_{\text{DC}}$, $t = 5 \text{ sec}^{(12)}$			1.0	μA

Notes:

12. Device is considered a two terminal device: pins 1, 2, 3 and 4 are shorted together and pins 5, 6, 7 and 8 are shorted together.
13. 5000 VAC_{RMS} for 1 minute duration is equivalent to 6000 VAC_{RMS} for 1 second duration.

Typical Performance Curves

For Single-Channel Devices: 6N137M, HCPL2601M, and HCPL2611M



Figure 3. Low Level Output Voltage vs. Ambient Temperature

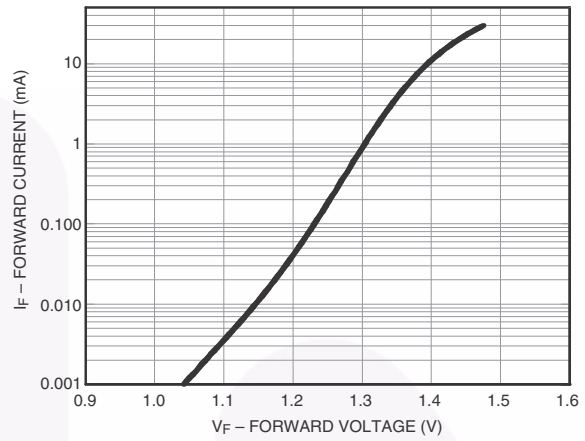


Figure 4. Input Diode Forward Voltage vs. Forward Current



Figure 5. Switching Time vs. Forward Current

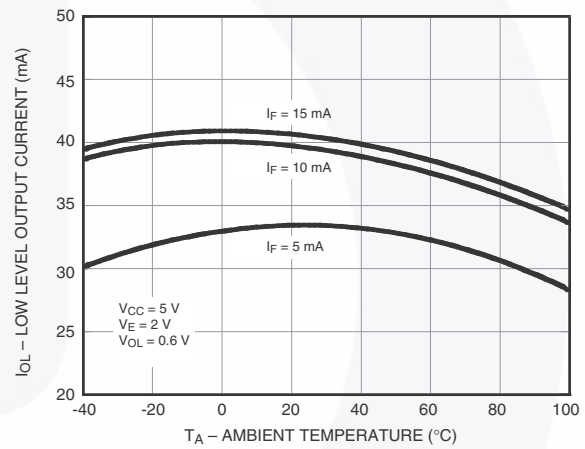


Figure 6. Low Level Output vs. Ambient Temperature



Figure 7. Input Threshold Current vs. Ambient Temperature



Figure 8. Output Voltage vs. Input Forward Current

Typical Performance Curves (Continued)

For Single-Channel Devices: 6N137M, HCPL2601M, HCPL2611M



Figure 9. Pulse Width Distortion vs. Temperature



Figure 10. Rise and Fall Time vs. Temperature



Figure 11. Enable Propagation Delay vs. Temperature



Figure 12. Switching Time vs. Temperature

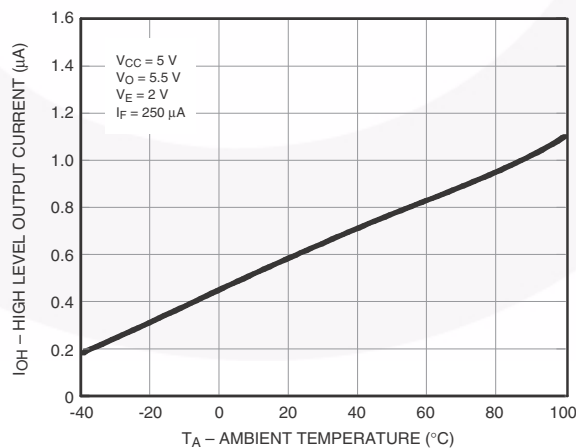


Figure 13. High Level Output Current vs. Temperature

Typical Performance Curves (Continued)

For Dual-Channel Devices: HCPL2630M and HCPL2631M

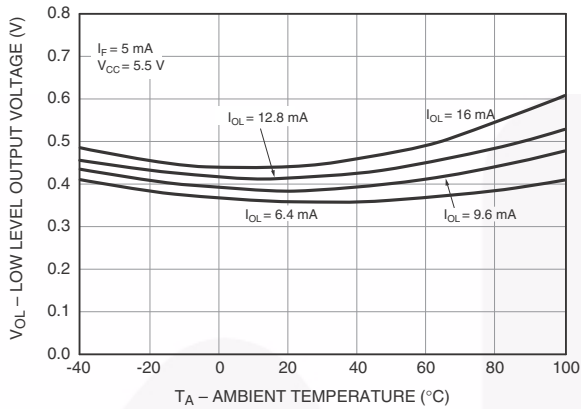


Figure 14. Low Level Output Voltage vs. Ambient Temperature



Figure 15. Input Diode Forward Voltage vs. Forward Current

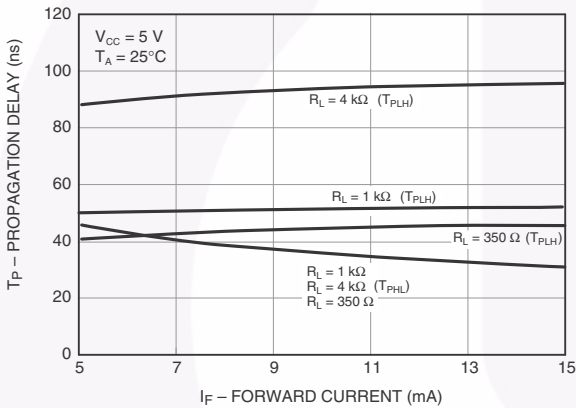


Figure 16. Switching Time vs. Forward Current



Figure 17. Low Level Output Current vs. Ambient Temperature

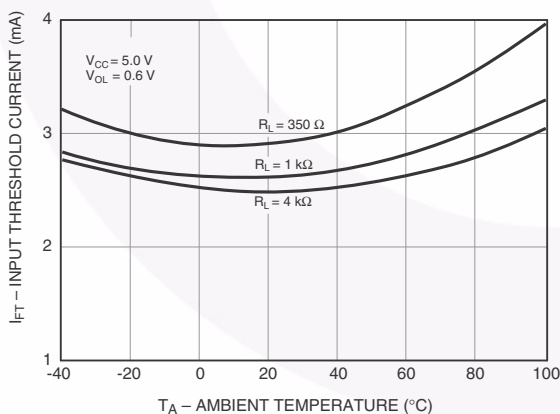


Figure 18. Input Threshold Current vs. Ambient Temperature

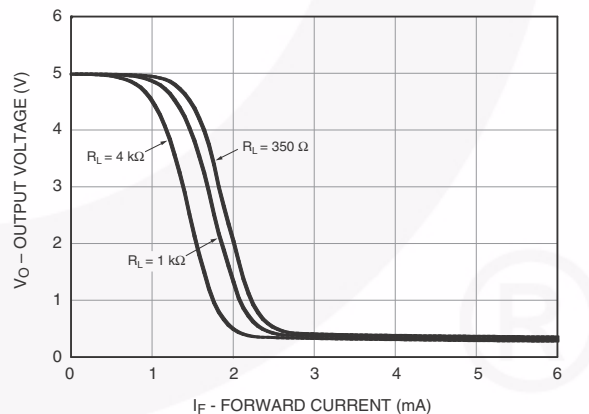


Figure 19. Output Voltage vs. Input Forward Current

Typical Performance Curves (Continued)

For Dual-Channel Devices: HCPL2630M and HCPL2631M

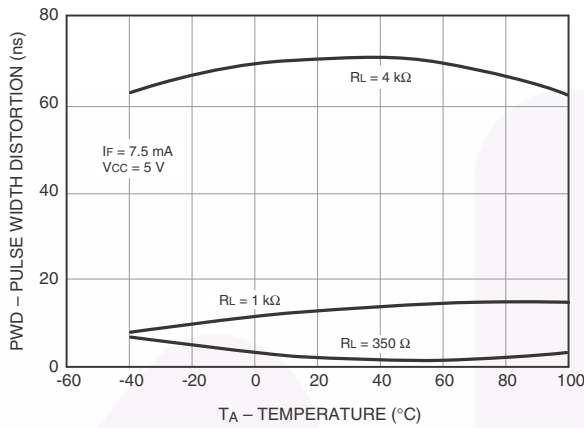


Figure 20. Pulse Width Distortion vs. Temperature



Figure 21. Rise and Fall Time vs. Temperature

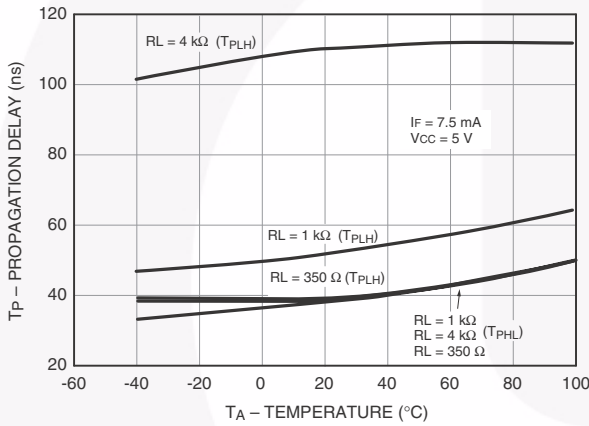


Figure 22. Switching Time vs. Temperature

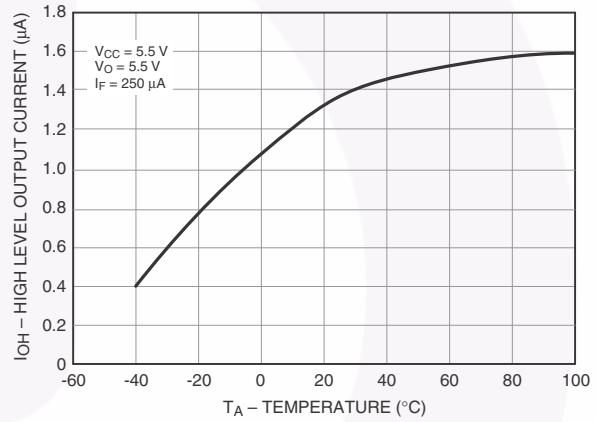


Figure 23. High Level Output Current vs. Temperature

Test Circuits



Figure 24. Test Circuit and Waveforms for t_{PLH} , t_{PHL} , t_r and t_f



Figure 25. Test Circuit t_{EHL} and t_{ELH}

Test Circuits (Continued)



Figure 26. Test Circuit Common Mode Transient Immunity

Reflow Profile



Profile Feature	Pb-Free Assembly Profile
Temperature Min. (T _{smín})	150°C
Temperature Max. (T _{smáx})	200°C
Time (t _s) from (T _{smín} to T _{smáx})	60 to 120 s
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 to 150 s
Peak Body Package Temperature	260°C +0°C / -5°C
Time (t _p) within 5°C of 260°C	30 s
Ramp-down Rate (T _p to T _L)	6°C/s maximum
Time 25°C to Peak Temperature	8 minutes maximum

Figure 27. Reflow Profile

Ordering Information

Part Number	Package	Packing Method
6N137M	DIP 8-Pin	Tube (50 units per tube)
6N137SM	SMT 8-Pin (Lead Bend)	Tube (50 units per tube)
6N137SDM	SMT 8-Pin (Lead Bend)	Tape and Reel (1,000 units per reel)
6N137VM	DIP 8-Pin, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137SVM	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137SDVM	SMT 8-Pin (Lead Bend), DIN EN/IEC 60747-5-5 Option	Tape and Reel (1,000 units per reel)
6N137TVM	DIP 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137TSVM	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tube (50 units per tube)
6N137TSR2VM	SMT 8-Pin, 0.4" Lead Spacing, DIN EN/IEC 60747-5-5 Option	Tape and Reel (1,000 units per reel)

Note:

The product orderable part number system listed in this table also applies to the HCPL2601M, HCPL2611M, HCPL2630M and HCPL2631M product families.

Marking Information



Figure 28. Top Mark

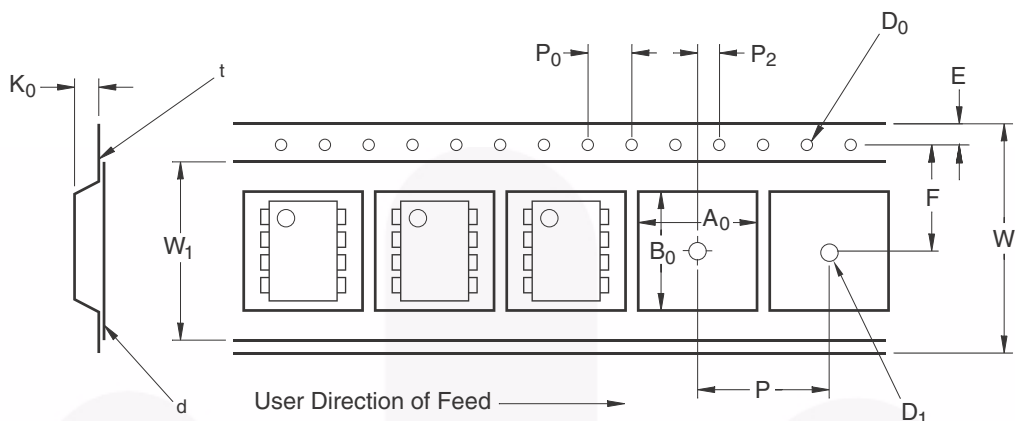
Definitions	
1	Fairchild Logo
2	Device Number
3	DIN EN/IEC60747-5-5 Option (only appears on component ordered with this option)
4	Two Digit Year Code, e.g., '16'
5	Two Digit Work Week Ranging from '01' to '53'
6	Assembly Package Code

Carrier Tape Specifications (Option SD)



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

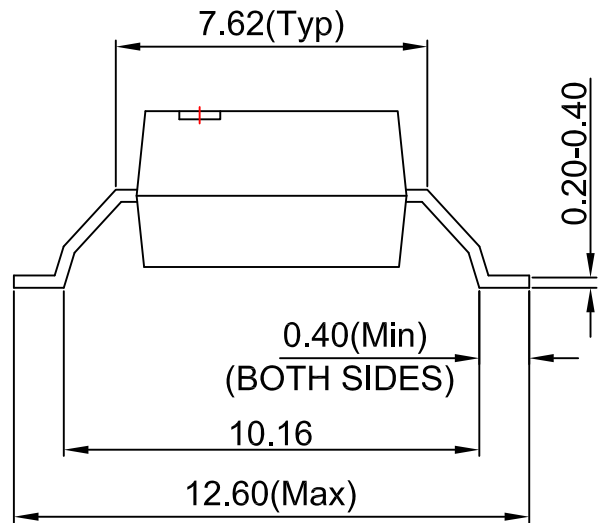
Carrier Tape Specifications (Option TSR2)



Symbol	Description	Dimension in mm
W	Tape Width	24.0 ± 0.3
t	Tape Thickness	0.40 ± 0.1
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	11.5 ± 0.1
P ₂		2.0 ± 0.1
P	Pocket Pitch	16.0 ± 0.1
A ₀	Pocket Dimensions	12.80 ± 0.1
B ₀		10.35 ± 0.1
K ₀		5.7 ± 0.1
W ₁	Cover Tape Width	21.0 ± 0.1
d	Cover Tape Thickness	0.1 Maximum
	Maximum Component Rotation or Tilt	10°
R	Minimum Bending Radius	30



LAND PATTERN RECOMMENDATION



NOTES:

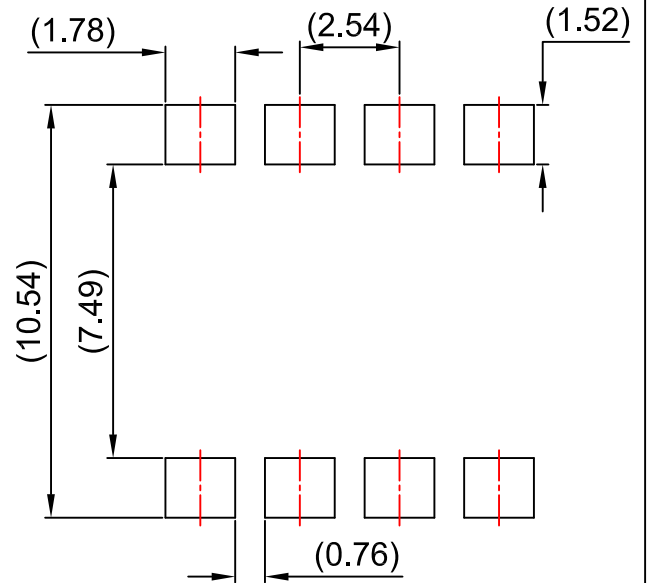
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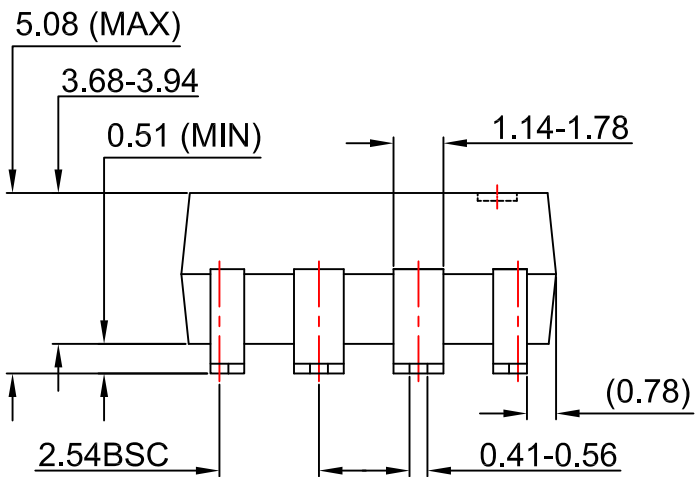


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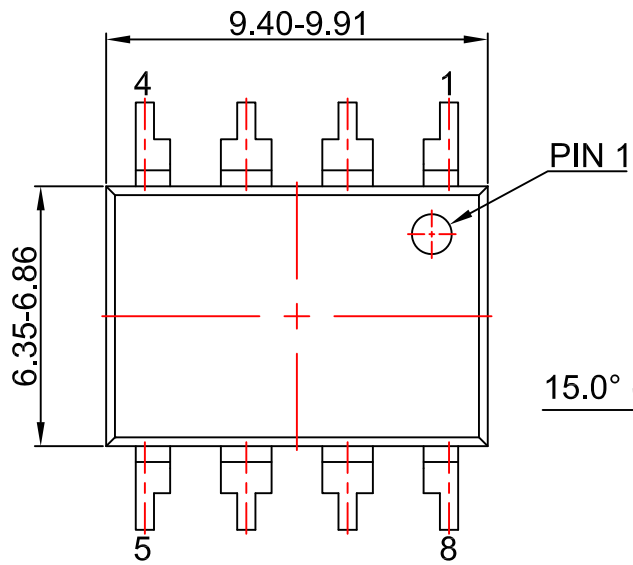
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PIN 1

15.0° (MAX)

10.16 (TYP)

0.20-0.40



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