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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

Description

13 mA (fan out of 8).

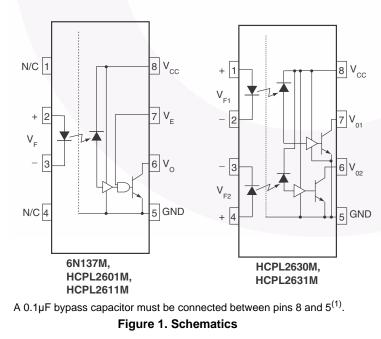
Features

- 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

Schematics



Package Outlines

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 col-

lector, thereby permitting wired OR outputs. The

switching parameters are guaranteed over the tempera-

ture range of -40°C to +85°C. A maximum input signal of

5 mA will provide a minimum output sink current of

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.

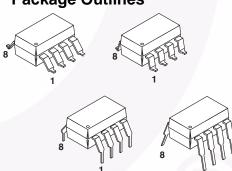


Figure 2. Package Options

Truth Table (Positive Logic)

Enable	Output					
Н	L					
Н	Н					
L	Н					
L	Н					
NC	L					
NC	Н					
	H H L L NC					

©2009 Fairchild Semiconductor Corporation 6N137M, HCPL26XXM Rev. 1.6

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	
	< 150 V _{RMS}	I–IV
Installation Classifications per DIN VDE 0110/1.89 Table 1, For Rated Mains Voltage	< 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	Input-to-Output Test Voltage, Method A, $V_{IORM} \times 1.6 = V_{PR}$, Type and Sample Test with t _m = 10 s, Partial Discharge < 5 pC	1,335	V _{peak}
V _{PR}	Input-to-Output Test Voltage, Method B, $V_{IORM} \times 1.875 = V_{PR}$, 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
Τ _S	Case Temperature ⁽²⁾	150	°C
I _{S,INPUT}	Input Current ⁽²⁾	200	mA
P _{S,OUTPUT}	Output Power (Duty Factor $\leq 2.7\%$) ⁽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.

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

Symbol	Parameter	Value	Unit		
T _{STG}	Storage Temperature	-40 to +125	°C		
T _{OPR}	Operating Temperature		-40 to +100	°C	
ТJ	Junction Temperature		-40 to +125	°C	
T _{SOL}	Lead Solder Temperature		260 for 10 sec	°C	
Symbol	Parameter	Device	Value	Unit	
EMITTER					
L (a) (a)	DO/Average Fernand Innut Overant Day Channel	Single Channel	50	A	
I _F (avg)	DC/Average Forward Input Current Per Channel	Dual Channel	30	mA	
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	
D	Input Dower Dissinction Der Channel	Single Channel	100	mW	
PI	Input Power Dissipation Per Channel	Dual Channel	45	mvv	
DETECTOR					
V _{CC}	Supply Voltage	All	-0.5 to 7.0	V	
I _O (avg)	Average Output Current Per Channel All		25	mA	
l _O (pk)	Peak Output Current Per Channel All		50	mA	
V _O	Output Voltage Per Channel	All	-0.5 to 7.0	V	
Р	Output Dower Dissinction Der Channel	Single Channel	85	mW	
P _O	Output Power Dissipation Per Channel Dual Channel		60	TIVV	

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	°C
Ν	Fan Out (TTL load)		8	

Note:

3. 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 V, $T_A = 0^{\circ}C$ to 70°C unless otherwise specified)

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
EMITTER						•	•
V	Input Forward Voltage	All	I _F = 10 mA, T _A = 25°C		1.45	1.70	V
V _F	Input Forward Voltage	All	I _F = 10 mA			1.80	v
B_{VR}	Input Reverse Breakdown Voltage	All	I _R = 10 μA	5.0			V
C _{IN}	Input Capacitance	All	V _F = 0, f = 1 MHz		60		pF
$\Delta V_{F} / \Delta T_{A}$	Temperature Coefficient of Forward Voltage	All	I _F = 10 mA		-1.4		mV/°C
DETECTO	R						
	Logia Low Supply Current	Single Channel	$I_F = 10 \text{ mA}, V_O = \text{Open}, V_E = 0.5 \text{ V}$		8	13	— mA
I _{CCL}	Logic Low Supply Current	Dual Channel	$I_{F1} = I_{F2} = 10 \text{ mA},$ $V_O = Open$		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 mA, V _O = Open,		10	15	
I _{EL}	Low Level Enable Current	Single Channel	V _E = 0.5 V		-0.7	-1.6	mA
I _{EH}	High Level Enable Current	Single Channel	V _E = 2.0 V		-0.5	-1.6	mA
V _{EL}	Low Level Enable Voltage	Single Channel	I _F = 10 mA ⁽⁴⁾			0.8	V
V _{EH}	High Level Enable Voltage	Single Channel	I _F = 10 mA	2.0			V

Note:

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

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
I _{FT}	Input Threshold Current	All	$V_{O} = 0.6 V, V_{E} = 2.0 V,$ $I_{OL} = 13 mA$		3	5	mA
I _{ОН}	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

Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.	Unit
, P	Propagation Delay Time to Logic LOW	All	$ \begin{array}{l} {\sf R}_{\sf L} = 350 \ \Omega, \ {\sf C}_{\sf L} = 15 \ {\sf pF}, \\ {\sf T}_{\sf A} = 25^{\circ} {\sf C}^{(5)} \ ({\sf Fig. 14}) \end{array} $	25	40	75	- ns
PHL			$R_L = 350 $ Ω, $C_L = 15 $ pF ⁽⁵⁾ (Fig. 14)			100	113
+	Propagation Delay	All	$R_L = 350 \Omega$, $C_L = 15 pF'$ $T_A = 25°C^{(6)}$ (Fig. 14)	20	40	75	
^t PLH	Time to Logic HIGH	All	$R_L = 350 $ Ω, $C_L = 15 $ pF ⁽⁶⁾ (Fig. 14)			100	- ns
t _{PHL} -t _{PLH}	Pulse Width Distortion	All	R _L = 350 Ω, C _L = 15 pF (Fig. 14)		1	35	ns
t _R	Output Rise Time (10% to 90%)	All	$R_L = 350 \Omega$, $C_L = 15 pF^{(7)}$ (Fig. 14)		30		ns
t _F	Output Fall Time (90% to 10%)	All	$R_L = 350 \Omega$, $C_L = 15 pF^{(8)}$ (Fig. 14)		10		ns
t _{EHL}	Enable Propagation Delay Time to Output LOW Level	Single Channel	V_{EH} = 3.5 V, R _L = 350 Ω, C _L = 15 pF ⁽⁹⁾ (Fig. 15)		15		ns
t _{ELH}	Enable Propagation Delay Time to Output HIGH Level	Single Channel	$V_{EH} = 3.5$ V, R _L = 350 Ω, C _L = 15 pF ⁽¹⁰⁾ (Fig. 15)		15		ns
		6N137M, HCPL2630M	I _F = 0 mA, V _{CM} = 50 V _{PEAK} , R _L = 350 Ω, T _A = 25°C ⁽¹¹⁾		10,000		
CM _H	Common Mode Transient Immunity	HCPL2601M, HCPL2631M	(Fig. 16)	5000	10,000		V/µs
	at Logic High	HCPL2611M	$ I_{F} = 0 \text{ mA}, V_{CM} = 400 \text{ V}_{PEAK}, \\ R_{L} = 350 \ \Omega, T_{A} = 25^{\circ}\text{C}^{(11)} \\ (\text{Fig. 16}) $	10,000	15,000		
CM _I		6N137M, HCPL2630M	$V_{\rm CM} = 50 V_{\rm PEAK}$		10,000		
	Common Mode Transient Immunity	HCPL2601M, HCPL2631M	$R_L = 350 \Omega, T_A = 25^{\circ}C^{(11)}$ (Fig. 16)	5000	10,000		V/µs
	at Logic Low	HCPL2611M	$V_{CM} = 400 V_{PEAK},$ $R_L = 350 \Omega, T_A = 25^{\circ}C^{(11)}$ (Fig. 16)	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.

6. 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.

7. t_R - Rise time is measured from the 90% to the 10% levels on the LOW to HIGH transition of the output pulse.

8. t_F – Fall time is measured from the 10% to the 90% levels on the HIGH to LOW transition of the output pulse.

- 9. 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.
- 10. 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.
- 11. 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., $V_O > 2.0$ 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., $V_O > 2.0$ V).

Dual-Channel: HCPL2630M, HCPL2631M — 8-Pin DIP High-Speed 10 MBit/s Logic Gate C	Single-Channel: 6N137M, HCPL2601M, HCPL2611M
lic	
ate O	
ptocouplers	

Unit

VAC_{RMS}

Ω

pF

μΑ

1.0

Electrical Characteristics (Continued)

Input-Output Insulation

Leakage Current

isolation (ation Characteristics (1 _A =25°C unless otherwise specified.)					
Symbol	Parameter	Device	Test Conditions	Min.	Тур.	Max.
V _{ISO}	Withstand Insulation Test Voltage	All	$ Relative Humidity \leq 50\%, \\ I_{I-O} \leq 10 \ \mu A, \ t = 1 \ min, \\ f = 50 \ Hz^{(12)(13)} $	5,000		
R _{I-O}	Resistance (Input to Output)	All	$V_{I-O} = 500 V_{DC}^{(12)}$		10 ¹¹	
C _{I-O}	Capacitance (Input to Output)	All	$f = 1 \text{ MHz}, V_{I-O} = 0 V_{DC}^{(12)}$		1	

Isolation Characteristics (T_A =25°C unless otherwise specified.)

Notes:

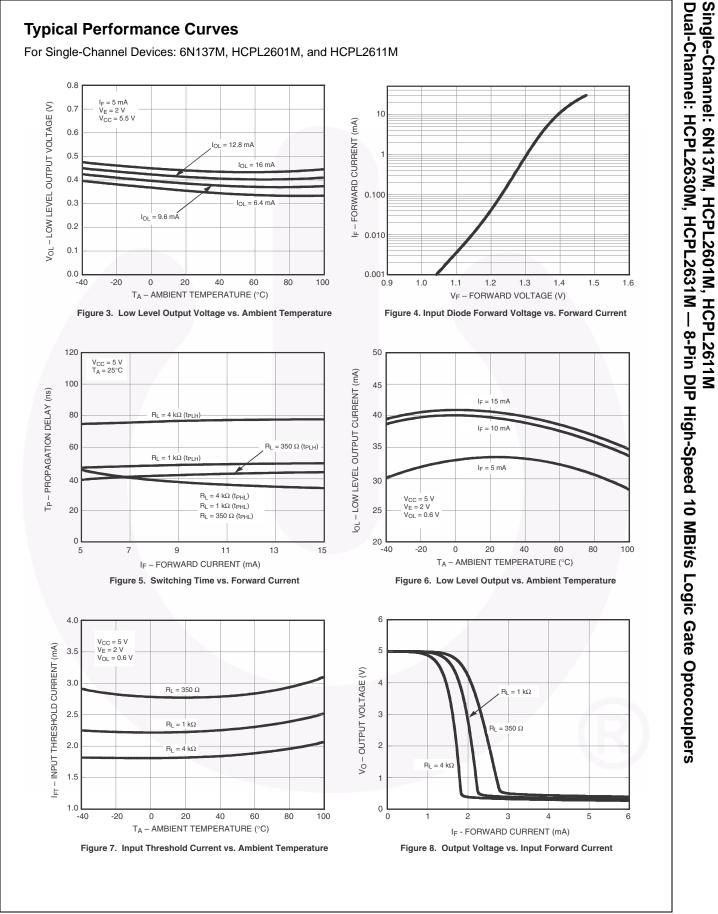
 I_{I-O}

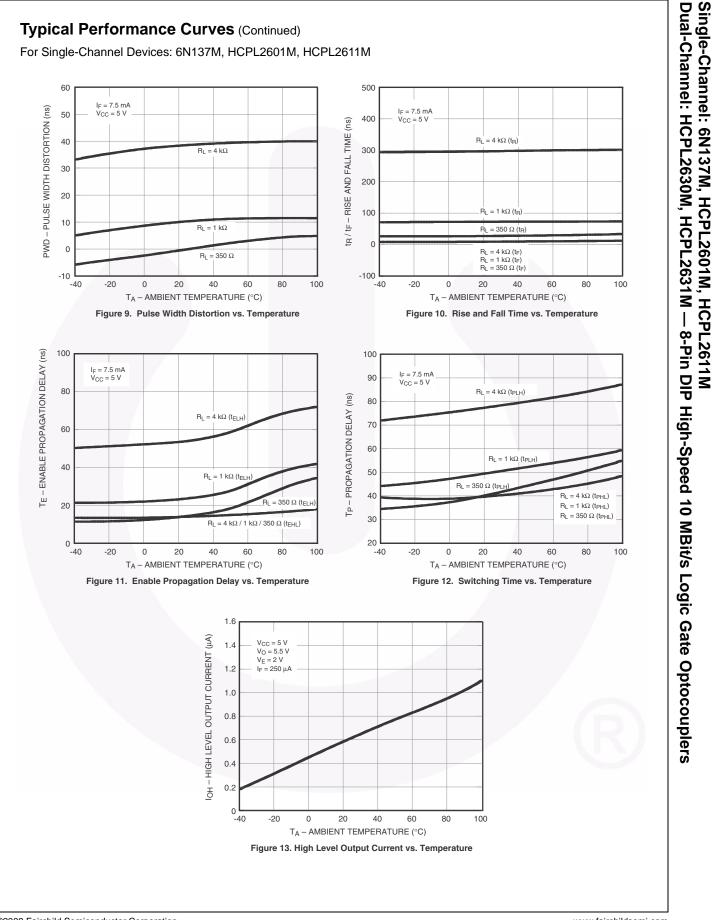
12. Device is considered a two terminal device: pins 1, 2, 3 and 4 are shorted together and pins 5, 6, 7 and 8 are shorted together.

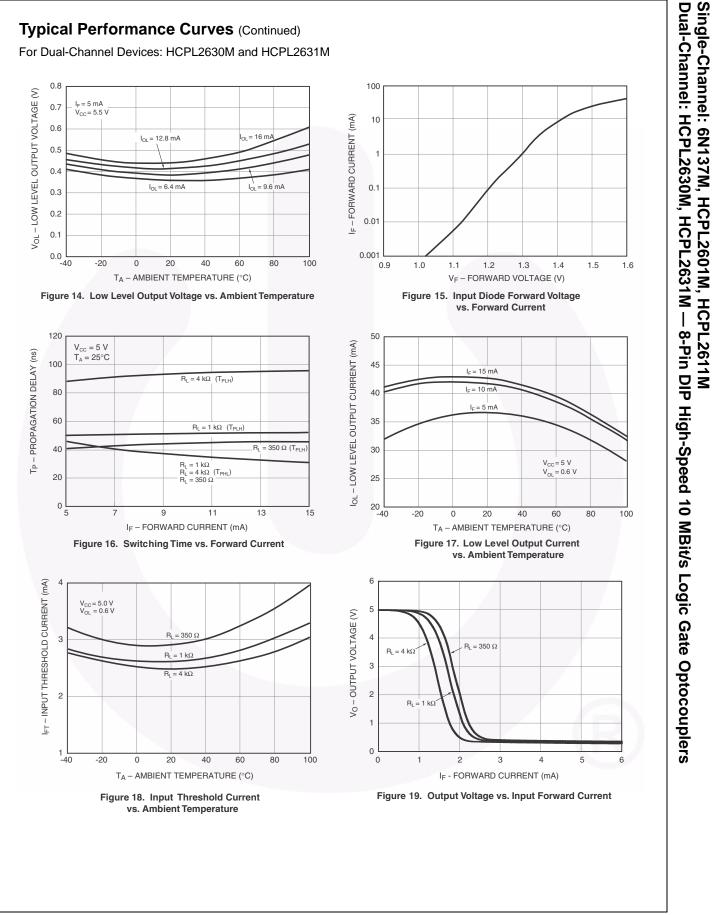
 $\label{eq:VI-l} \begin{array}{l} \mbox{Relative Humidity} \leq 45\%, \\ \mbox{V}_{I\text{-I}} = 3000 \ \mbox{V}_{DC}, \ t = 5 \ \mbox{sec}^{(12)} \end{array}$

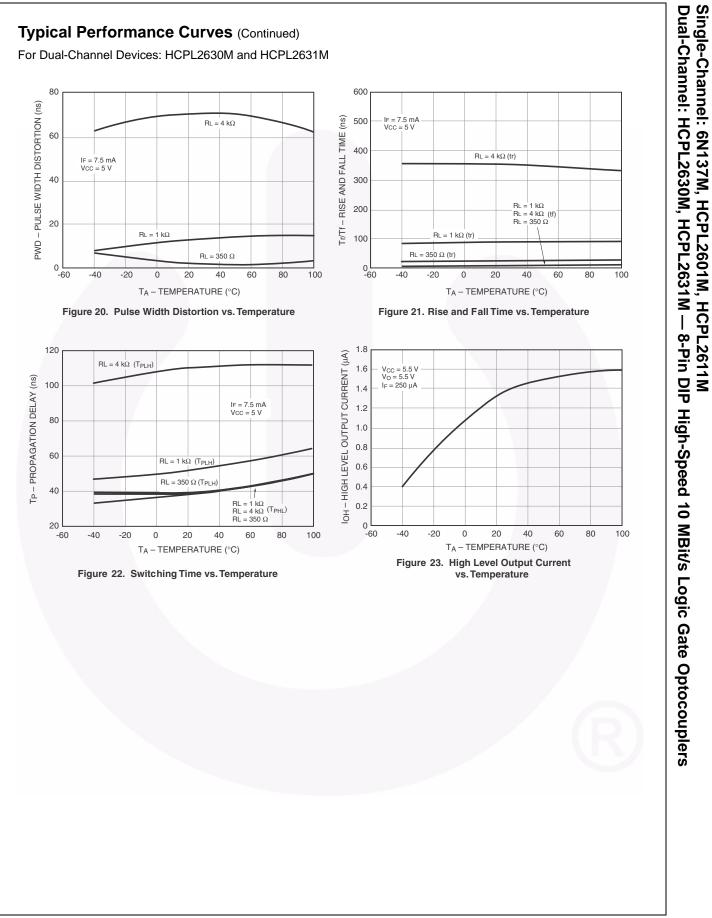
13. 5000 VAC_{RMS} for 1 minute duration is equivalent to 6000 VAC_{RMS} for 1 second duration.

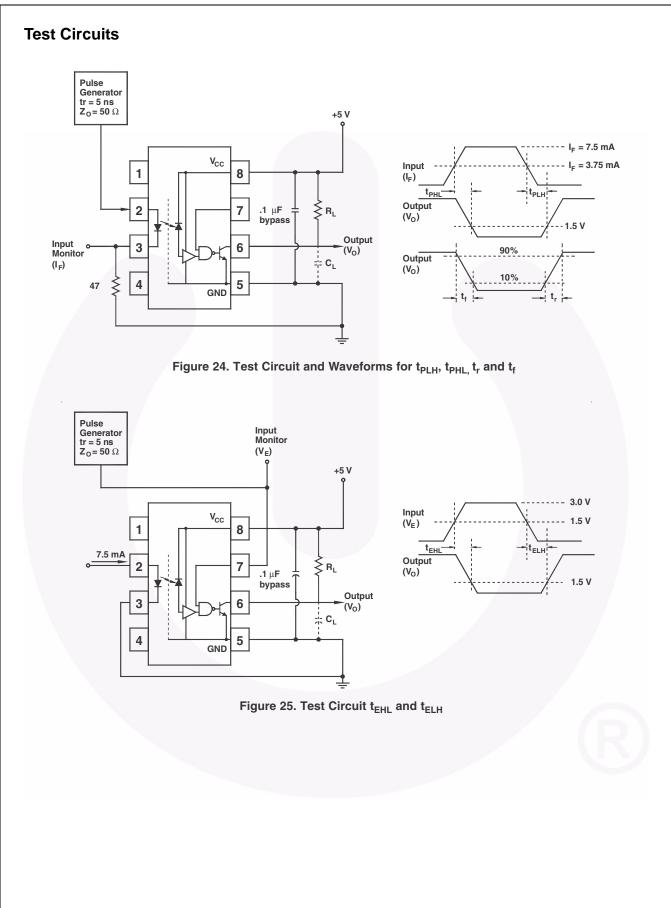
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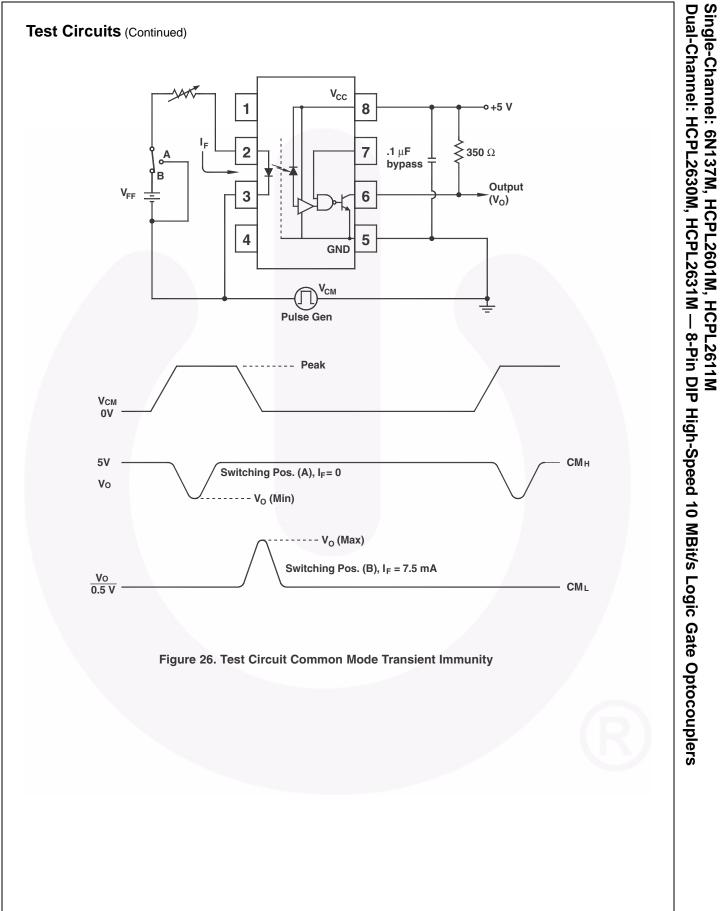


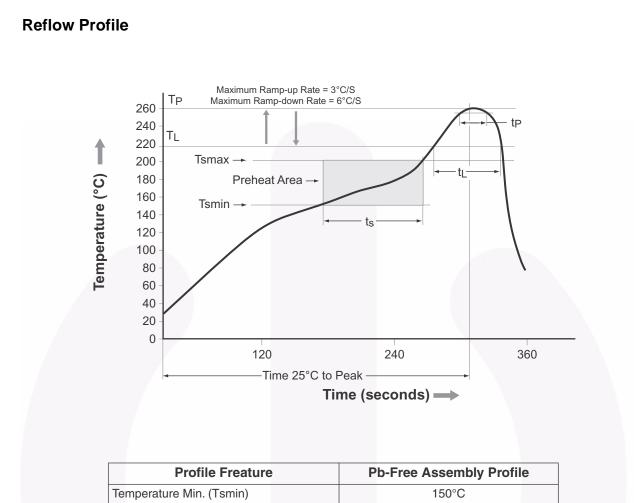












150°C	
200°C	
60 to 120 s	
3°C/second maximum	
217°C	
60 to 150 s	
260°C +0°C / -5°C	
30 s	
6°C/s maximum	
8 minutes maximum	

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

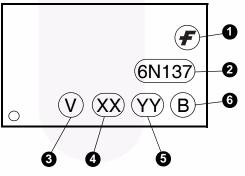
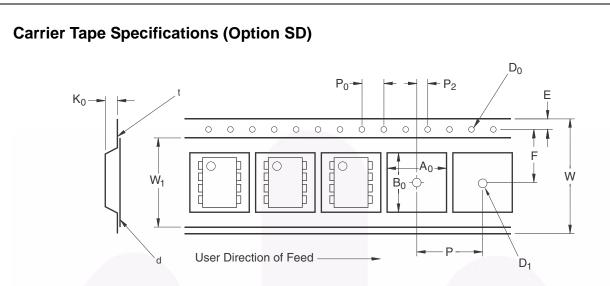
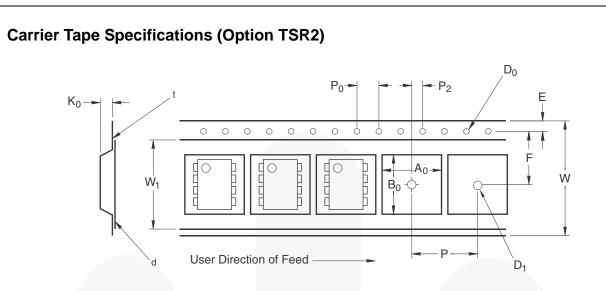


Figure 28. Top Mark

Defini	tions
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

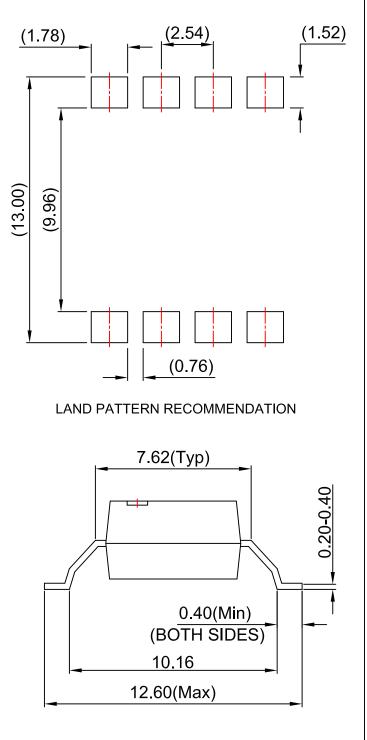


Symbol	Description	Dimension in mm
W	Tape Width	16.0 ± 0.3
t	Tape Thickness	0.30 ± 0.05
P ₀	Sprocket Hole Pitch	4.0 ± 0.1
D ₀	Sprocket Hole Diameter	1.55 ± 0.05
E	Sprocket Hole Location	1.75 ± 0.10
F	Pocket Location	7.5 ± 0.1
P ₂		2.0 ± 0.1
Р	Pocket Pitch	12.0 ± 0.1
A ₀	Pocket Dimensions	10.30 ±0.20
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



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
Р	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

1.500 4 <u>Ø1.00</u> (TYP) 6 35-6 86 5 8 9.40-9.91 1.14-1.78 3.68-3.94 5.08 Max



FAIRCHILD

NOTES:

(0.775)

A) NO STANDARD APPLIES TO THIS PACKAGE

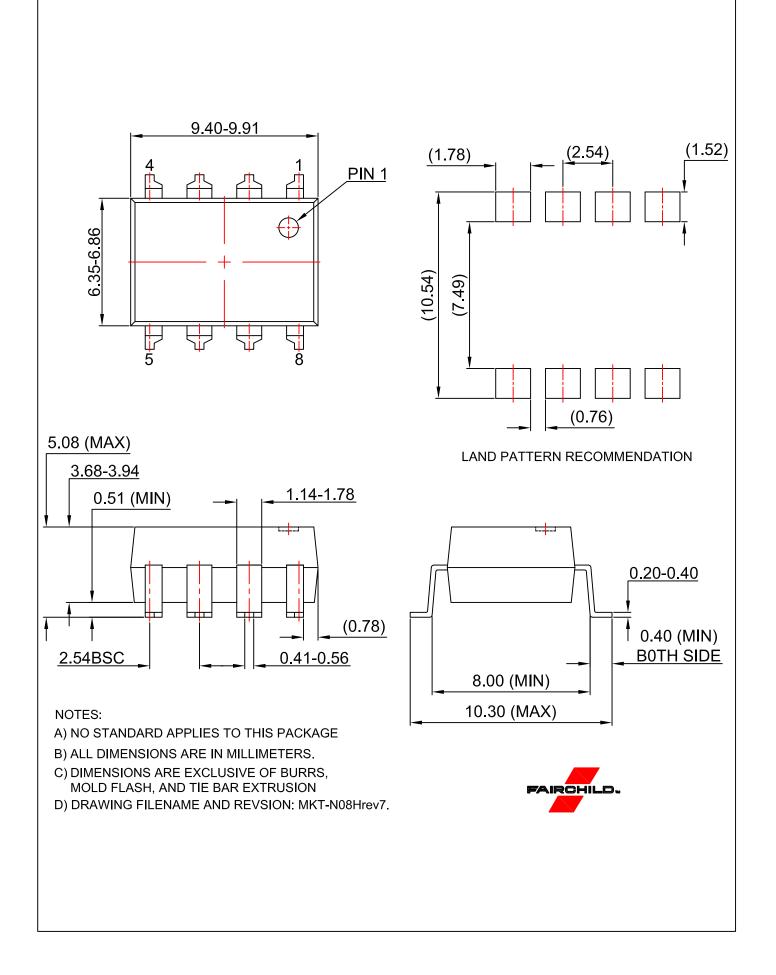
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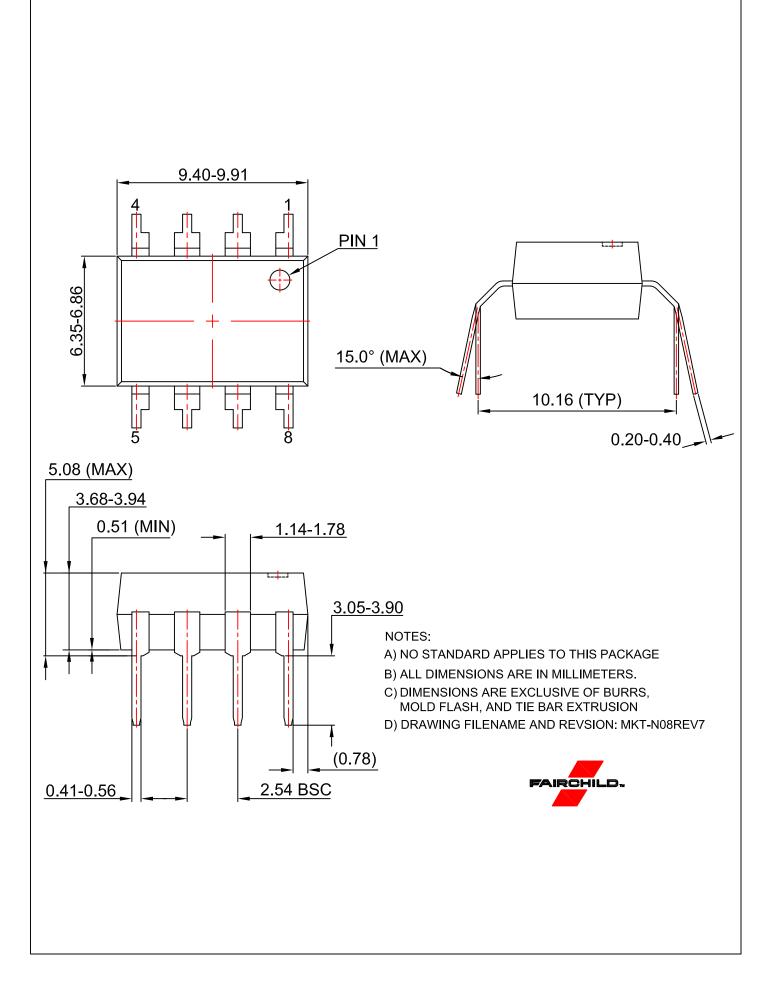
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6N137SDM 6N137SM 6N137SVM 6N137SDVM 6N137TSR2VM 6N137TSVM 6N137TM 6N137VM 6N137TVM