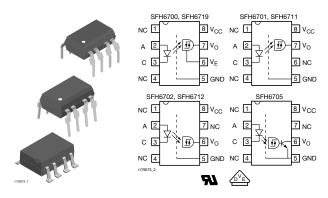
Vishay Semiconductors

High Speed Optocoupler, 5 MBd, 1 kV/µs dV/dt



DESCRIPTION

The SFH67xx high speed optocoupler series consists of a GaAlAs infrared emitting diode, optically coupled with an integrated photo detector. The detector incorporates a Schmitt-Trigger stage for improved noise immunity. Using the enable input, the output can switched to the high ohmic state, which is necessary for data bus applications. A Faraday shield provides a common mode transient immunity of 1000 V/ μ at V_{CM} = 50 V for SFH6700, SFH6701, SFH6702, SFH6705 and 2500 V/ μ at V_{CM} = 400 V for SFH6711, SFH6712, SFH6719.

The SFH67xx uses an industry standard DIP-8 package. With standard lead bending, creepage distance and clearance of \geq 7 mm with lead bending options 6, 7, and 9 \geq 8 mm are achieved.

FEATURES

 Data rate 5 MBits/s (2.5 MBit/s over temperature)





- Isolation test voltage, 5300 V_{RMS} for 1 s
- TTL, LSTTL and CMOS compatible
- Internal shield for very high common mode transient immunity
- Wide supply voltage range (4.5 V to 15 V)
- Low input current (1.6 mA to 5 mA)
- Three state output (SFH6700, SFH6719)
- Totem pole output (SFH6701, SFH6702, SFH6711, SFH6712)
- Open collector output (SFH6705)
- Compliant to RoHS Directive to 2002/95/EC and in accordance WEEE 2002/96/EC

APPLICATIONS

- Industrial control
- Replace pulse transformers
- · Routine logic interfacing
- Motion/power control
- High speed line receiver
- Microprocessor system interfaces
- Computer peripheral interfaces

AGENCY APPROVALS

- UL1577, file no. E52744 system code H or J, double protection
- DIN EN 60747-5-5 (VDE 0884) available with option 1

ORDERING INFORM	MATION			
S F H G		PACKAGE OF	TION TAPE AND REEL	Option 6 7.62 mm Option 7 Option 9 2.7 mm
AGENCYCERTIFIED/ PACKAGE	THREE STATE	TOTEN	1 POLE	OPEN COLLECTOR
UL				
DIP-8	SFH6700	SFH6701	SFH6711	SFH6705
DIF-0	SFH6719	SFH6702	SFH6712	-
DIP-8, 400 mil, option 6	-	SFH6702-X006	-	SFH6705-X006
CMD 9 aption 7	-	SFH6701-X007	SFH6711-X007	SFH6705-X007
SMD-8, option 7	-	SFH6702-X007	SFH6712-X007	-
SMD-8, option 9	SFH6700-X009	SFH6702-X009T ⁽¹⁾	SFH6701-X009T ⁽¹⁾	-

Note

Also available in tubes. To order, do not add T on end

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TRUTH TABLE (positive logic)							
PARTS	IR DIODE	ENABLE	OUTPUT				
SFH6700	on	Н	Z				
31110700	off	Н	Z				
SFH6719	on	L	Н				
31110719	off	L	L				
SFH6701	on		Н				
31110701	off		L				
SFH6702	on		Н				
31110702	off		L				
SFH6705	on		Н				
31110703	off		L				
SFH6711	on		Н				
31110711	off		Ĺ				
SFH6712	on		Н				
31110712	off	_	L				

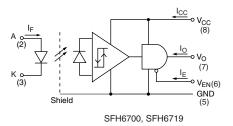
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
INPUT				
Reverse voltage		V_R	3	V
DC forward current		I _F	10	mA
Surge forward current	t≤1 µs	I _{FSM}	1	Α
Power dissipation		P _{diss}	20	mW
OUTPUT				
Supply voltage		V _{CC}	- 0.5 to + 15	V
Three state enable voltage (SFH6700, SFH6719 only)		V _{EN}	- 0.5 to + 15	V
Output voltage		Vo	- 0.5 to + 15	V
Average output current		I _O	25	mA
Power dissipation		P _{diss}	100	mW
COUPLER				
Storage temperature range		T _{stg}	- 55 to + 125	°C
Ambient temperature range		T _{amb}	+ 85	°C
Lead soldering temperature	t = 10 s	T _{sld}	260	°C
Isolation test voltage		V _{ISO}	5300	V_{RMS}
Pollution degree			2	
Croopage distance and alcoronse	Standard lead bending		7	mm
Creepage distance and clearance	Options 6, 7, 9		8	mm
Comparative tracking index per DIN IEC 112/VDE 0303, part 1			175	
la dation variations	V _{IO} = 500 V, T _{amb} = 25 °C	R _{IO}	10 ¹²	Ω
Isolation resistance	V _{IO} = 500 V, T _{amb} = 100 °C	R _{IO}	10 ¹¹	Ω

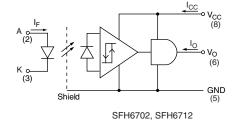
Note

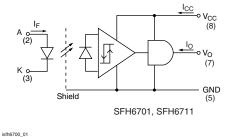
Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. Functional operation of the device is not
implied at these or any other conditions in excess of those given in the operational sections of this document. Exposure to absolute
maximum ratings for extended periods of the time can adversely affect reliability.



High Speed Optocoupler, 5 MBd, Vishay Semiconductors 1 kV/µs dV/dt







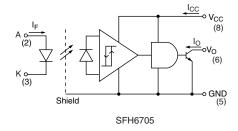


Fig. 1 - Schematics

RECOMMENDED OPERATING CONDITIONS (1)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply voltage			V _{CC}	4.5		15	V
Enable voltage high		SFH6700	V _{EH}	2		15	V
		SFH6719	V _{EH}	2		15	V
Enable voltage low		SFH6700	V _{EL}	0		0.8	V
		SFH6719	V _{EL}	0		0.8	V
Forward input ourrent			I _{Fon}	1.6 ⁽²⁾		5	mA
Forward input current			I _{Foff}			0.1	mA
Operating temperature			T _{amb}	- 40		85	°C
Output pull-up resistor		SFH6705	R_L	350		4	kΩ
Fan output	R _L = 1 kΩ	SFH6705	N			16	LS TTL loads

Notes

- (1) A 0.1 µF bypass capacitor connected between pins 5 and 8 must be used.
- (2) We recommended using a 2.2 mA to permit at least 20 % CTR degradation guard band.

ELECTRICAL CHARACTERISTICS (1)							
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT	
INPUT							
Converd veltage	I _F = 5 mA	V _F		1.6	1.75	V	
Forward voltage	I _F = 5 mA	V _F			1.8	V	
Input current hysteresis	V _{CC} = 5 V, I _{HYS} = I _{Fon} - I _{Fon}	I _{HYS}		0.1		mA	
Reverse current	V _R = 3 V	I _R		0.5	10	μΑ	
Capacitance	$V_R = 0 V, f = 1 MHz$	Co		60		pF	
Thermal resistance		R _{thJA}		700		K/W	
OUTPUT	•						
Logic low output voltage	I _{OL} = 6.4 mA	V _{OL}			0.5	V	
Logic high output voltage (except SFH6705)	I _{OH} = 2.6 mA, V _{OH} = V _{CC} - 1.8 V		2.4			V	
Output leakage current	$V_{O} = 5.5 \text{ V}, V_{CC} = 4.5 \text{ V}, I_{F} = 5 \text{ mA}$	Іонн		0.5	100	μA	
(V _{OUT} > V _{CC}) (except SFH6705)	$V_{O} = 15 \text{ V}, V_{CC} = 4.5 \text{ V}, I_{F} = 5 \text{ mA}$	Іонн		1	500	μA	

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ELECTRICAL CHARAC	CTERISTICS (1)					
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
OUTPUT				•	•	<u>'</u>
Output leakage current	$V_{O} = 5.5 \text{ V}, V_{CC} = 5.5 \text{ V}, I_{F} = 5 \text{ mA}$	I _{OHH}		0.5	100	μA
(SFH6705 only)	$V_O = 15 \text{ V}, V_{CC} = 15 \text{ V}, I_F = 5 \text{ mA}$	I _{OHH}		1	500	μA
Logic high enable voltage (SFH6700/19 only)		V _{EH}	2			V
Logic low enable voltage (SFH6700/19 only)		V _{EL}			0.8	V
	V _{EN} = 2.7 V	I _{EH}			20	μA
Logic high enable current (SFH6700/19 only)	V _{EN} = 5.5 V	I _{EH}			100	μA
(GI 1107 GG/ 13 GIIIy)	V _{EN} = 15 V	I _{EH}		0.001	250	μA
Logic low enable current (SFH6700/19 only)	V _{EN} = 0.4 V	I _{EL}	- 320	- 50		μΑ
	$V_O = 0.4 \text{ V}, V_{EN} = 2 \text{ V},$ $I_F = 5 \text{ mA}$	I _{OZL}	- 20			μΑ
High impedance state output current (SFH6700/19 only)	$V_O = 2.4 \text{ V}, V_{EN} = 2 \text{ V},$ $I_F = 0 \text{ mA}$	I _{OZH}			20	μΑ
	$V_O = 5.5 \text{ V}, V_{EN} = 2 \text{ V},$	I _{OZH}			100	μA
	$I_F = 0 \text{ mA}$	I _{OZH}		0.001	500	μA
Logic low comply comment	V _{CC} = 5.5 V, I _F = 0	I _{CCL}		3.7	6	mA
Logic low supply current	V _{CC} = 15 V, I _F = 0	I _{CCL}		4.1	6.5	mA
Logic high supply current	$V_{CC} = 5.5 \text{ V}, I_F = 5 \text{ mA}$	I _{CCH}		3.4	4	mA
Logic High supply current	$V_{CC} = 15 \text{ V}, I_F = 5 \text{ mA}$	I _{CCH}		3.7	5	mA
Logic low short circuit output	$V_O = V_{CC} = 5.5 \text{ V}, I_F = 0$	I _{OSL}	25			mA
current ⁽²⁾	$V_O = V_{CC} = 15 \text{ V}, I_F = 0$	I _{OSL}	40			mA
Logic high short circuit output	$V_{CC} = 5.5 \text{ V}, V_{O} = 0 \text{ V}, I_{F} = 5$	I _{OSL}			- 10	mA
current ⁽²⁾	$V_{CC} = 15 \text{ V}, V_{O} = 0 \text{ V}, I_{F} = 5$	I _{OSL}			- 25	mA
Thermal resistance		R _{thJA}		300		K/W
COUPLER						
Capacitance (input to output)	f = 1 MHz, pins 1 to 4 and 5 to 8 shorted together	C _{IO}		0.6		pF
Isolation resistance	$V_{IO} = 500 \text{ V}, T_{amb} = 25 ^{\circ}\text{C}$	R _{IO}	10 ¹²			Ω
100101111111111111111111111111111111111	$V_{IO} = 500 \text{ V}, T_{amb} = 100 ^{\circ}\text{C}$	R _{IO}	10 ¹¹			Ω

Notes

⁽²⁾ Output short circuit time ≤ 10 ms.

SWITCHING CHARACTERISTICS (1)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Propagation delay time to logic	Without peaking capacitor		t _{PHL}		120		ns
low output level, SFH6700,			t _{PHL}		115	300	ns
SFH6701, SFH6702, SFH6711,	With peaking capacitor		t _{PLH}		125		ns
SFH6712, SFH6719 (2)			t _{PLH}		90	300	ns
Output enable time to logic high (SFH6700, SFH6719) (2)			t _{PZH}		20		ns
Output enable time to logic low (SFH6700, SFH6719) (2)			t _{PZL}		25		ns
Output disable time from logic low (SFH6700, SFH6719) (2)			t _{PLZ}		50		ns
Output rise time (2)	10 % to 90 %		t _r		40		ns
Output fall time (2)	90 % to 10 %		t _f		10		ns

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⁽¹) - 40 °C ≤ T_{amb} ≤ 85 °C; 4.5 V ≤ V_{CC} ≤ 15 V; 1.6 mA ≤ I_{Fon} ≤ 5 mA; 2 ≤ V_{EH} ≤ 15 V; 0 ≤ V_{EL} ≤ 0.8 V; 0 mA ≤ I_{Foff} ≤ 0.1 mA. Typical values: T_{amb} = 25 °C; V_{CC} = 5 V; I_{Fon} = 3 mA unless otherwise specified. Minimum and maximum values are testing requirements. Typical values are characteristics of the device and are the result of engineering evaluation. Typical values are for information only and are not part of the testing requirements.



High Speed Optocoupler, 5 MBd, 1 kV/µs dV/dt Vishay Semiconductors

SWITCHING CHARACTERISTICS (1)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
	Without peaking capacitor	SFH6705	t _{PHL}		115		ns
Propagation delay time to logic	With peaking capacitor	SFH6705	t _{PHL}		105	300	ns
low output level (3)	Without peaking capacitor	SFH6705	t _{PLH}		125		ns
	With peaking capacitor	SFH6705	t _{PLH}		90	300	ns
Output rise time (3)	10 % to 90 %		t _r		25		ns
	90 % to 10 %		t _r		4		ns

Notes

⁽⁴⁾ A 0.1 µF bypass capacitor connected between pins 5 and 8 must be used

COMMON MODE TRANSIENT IMMUNITY (1)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
		SFH6700	CM _H (2)	1000			V/µs
	$ V_{CM} = 50 \text{ V}, I_F = 1.6 \text{ mA}$	SFH6701	CM _H (2)	1000			V/µs
	$ V_{CM} = 50 \text{ V}, I_F = 1.6 \text{ IIIA}$	SFH6702	CM _H (2)	1000			V/µs
Logic high common mode transient immunity		SFH6705	CM _H (2)	1000			V/µs
transient initiality	V _{CM} = 400 V, I _F = 1.6 mA	SFH6711	CM _H (2)	2500			V/µs
		SFH6712	CM _H (2)	2500			V/µs
		SFH6719	CM _H (2)	2500			V/µs
	$ V_{CM} = 50 \text{ V}, I_F = 0 \text{ mA}$	SFH6700	CM _L (3)	1000			V/µs
		SFH6701	CM _L (3)	1000			V/µs
	$ V_{CM} = 50 \text{ V}, I_F = 0 \text{ mA}$	SFH6702	CM _L (3)	1000			V/µs
Logic Low common mode transient immunity		SFH6705	CM _L (3)	1000			V/µs
		SFH6711	CM _L (3)	2500			V/µs
	$ V_{CM} = 400 \text{ V}, I_F = 0 \text{ mA}$	SFH6712	CM _L (3)	2500			V/µs
		SFH6719	CM _L (3)	2500			V/µs

Notes

TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

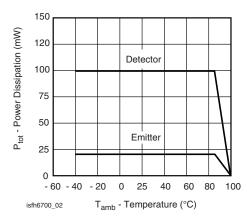


Fig. 2 - Permissible Total Power Dissipation vs. Temperature

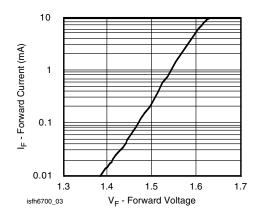


Fig. 3 - Typical Input Diode Forward Current vs. Forward Voltage

 $^{^{(1)} \ \ 0 \ ^{\}circ}C \leq T_{amb} \leq 85 \ ^{\circ}C; \ \, 4.5 \ V \leq V_{CC} \leq 15 \ V; \ \, 1.6 \ \, mA \leq I_{Fon} \leq 5 \ \, mA; \ \, 2 \leq V_{EH} \leq 15 \ V \ \, (SFH6700/19); \ \, 0 \leq V_{EL} \leq 0.8 \ V \ \, (SFH6700, SFH6719); \ \, 0 \ \, mA \leq I_{Foff} \leq 0.1 \ \, mA$

⁽²⁾ Typical values: T_{amb} = 25 °C; V_{CC} = 5 V; I_{Fon} = 3 mA unless otherwise specified ⁽⁴⁾

 $^{^{(3)}}$ Typical values: T_{amb} = 25 °C, V_{CC} = 5 V; I_{Fon} = 3 mA; R_L = 390 Ω unless otherwise specified $^{(4)}$

⁽¹⁾ $T_{amb} = 25 \, ^{\circ}C, V_{CC} = 5 \, V$

⁽²⁾ CM_H is the maximum slew rate of a common mode voltage V_{CM} at which the output voltage remains at logic high level (V_O > 2 V)

 $^{^{(3)}}$ CM_L is the maximum slew rate of a common mode voltage V_{CM} at which the output voltage remains at logic high level ($V_{O} < 0.8 \text{ V}$)

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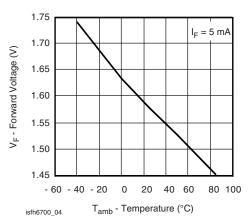


Fig. 4 - Typical Forward Input Voltage vs. Temperature

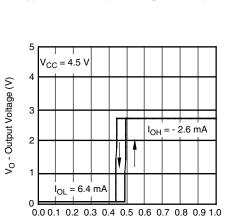


Fig. 5 - Typical Output Voltage vs. Forward Input Current (except SFH6705)

I_F - Input Current (mA)

isfh6700_05

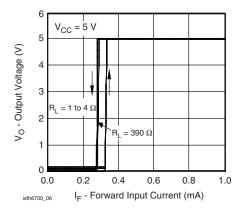


Fig. 6 - Typical Output Forward Voltage vs. Forward Input Current (only SFH6705)

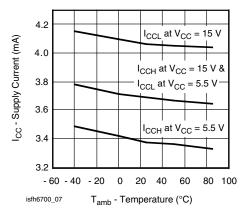


Fig. 7 - Typical Supply Current vs. Temperature

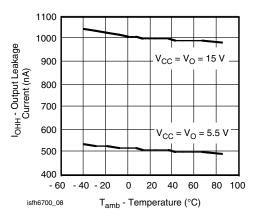


Fig. 8 - Typical Output Leakage Current vs. Temperature

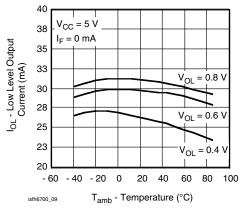


Fig. 9 - Typical Low Level Output Current vs. Temperature



High Speed Optocoupler, 5 MBd, Vishay Semiconductors 1 kV/µs dV/dt

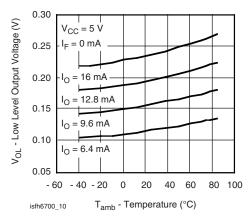


Fig. 10 - Typical Low Level Output Voltage vs. Temperature

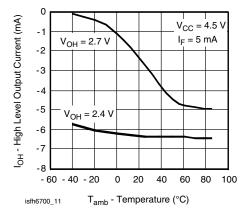


Fig. 11 - Typical High Level Output Current vs. Temperature (except SFH6705)

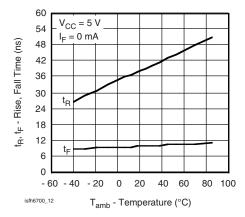


Fig. 12 - Typical Rise, Fall Time vs. Temperature (except SFH6705)

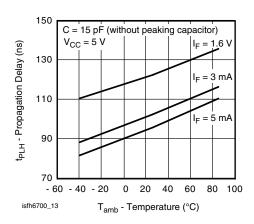


Fig. 13 - Typical Propagation Delay to Logic High vs. Temperature (except SFH6705)

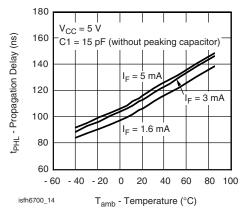


Fig. 14 - Typical Propagation Delay to Logic Low vs. Temperature (except SFH6705)

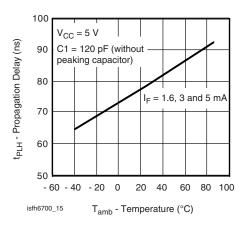


Fig. 15 - Typical Propagation Delays to Logic High vs. Temperature (except SFH6705)

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High Speed Optocoupler, 5 MBd, 1 kV/µs dV/dt



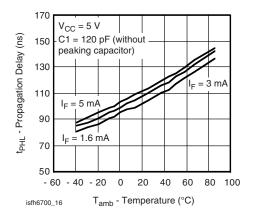


Fig. 16 - Typical Propagation Delay to Logic Low vs. Temperature

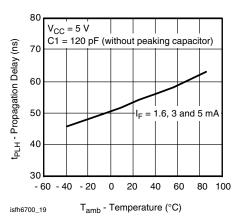


Fig. 19 - Typical Propagation Delays to Logic High vs. Temperature

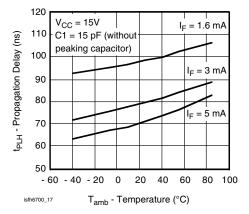


Fig. 17 - Typical Propagation Delays to Logic High vs. Temperature

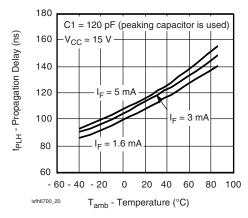


Fig. 20 - Typical Propagation Delays to Logic Low vs. Temperature (except SFH6705)

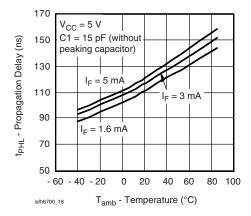


Fig. 18 - Typical Propagation Delays to Logic Low vs.Temperature

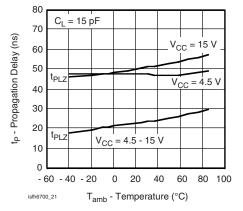


Fig. 21 - Typical Logic Low Enable Propagation Delays vs. Temperature (only SFH6700/11)



High Speed Optocoupler, 5 MBd, Vishay Semiconductors 1 kV/µs dV/dt

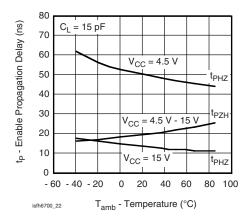


Fig. 22 - Typical Logic High Enable Propagation Delays vs. Temperature (only SFH6700/11)

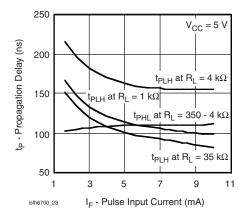


Fig. 23 - Typical Propagation Delays vs. Pulse Input Current (only SFH6705)

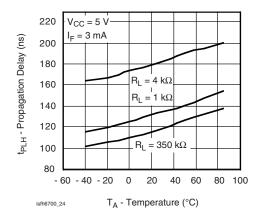


Fig. 24 - Typical Propagation Delays to High Level vs. Temperature (only SFH6705)

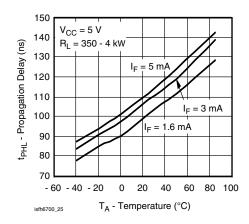


Fig. 25 - Typical Propagation Delays to Low Level vs. Temperature (only SFH6705)

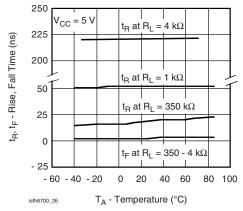
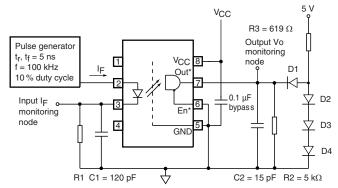


Fig. 26 - Typical Rise, Fall Time vs. Temperature (only SFH6705)

Vishay Semiconductors

High Speed Optocoupler, 5 MBd, 1 kV/µs dV/dt





The probe and jig capacitances are included in C1 and C2

1.1 kΩ

d C2 All diodes are 1N916 or 1N3064

* SFH6701, SFH6702, SFH6711, SFH6712 without V_{EN}



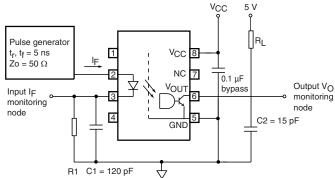
Output VO

Output VO

Input IF

681 Ω

Fig. 27 - Test Circuit for $t_{\text{PLH}},\,t_{\text{PHL}},\,t_{\text{r}}$ and t_{f}



The probe and jig capacitances are included in C1 and C2

R1	2.15 kΩ	1.1 kΩ	681 Ω		
I _{Fon}	1.6 mA	3 mA	5 mA		

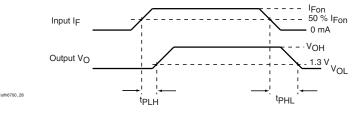


Fig. 28 - Test Circuit for t_{PLH} , t_{PHL} , t_{r} and - SFH6705



High Speed Optocoupler, 5 MBd, 1 kV/µs dV/dt

Vishay Semiconductors

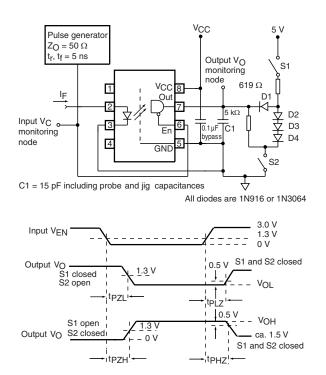


Fig. 29 - Test Circuit for $t_{\text{PHZ}},\,t_{\text{PZH}},\,t_{\text{PLZ}}$ and t_{PZL} - SFH6700/19

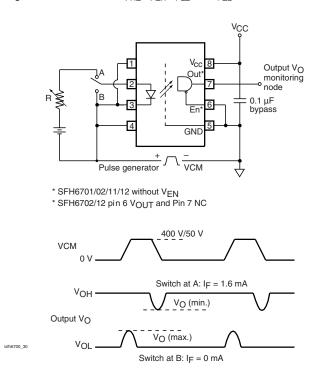
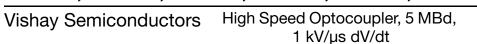


Fig. 30 - Test Circuit for Common Mode Transient Immunity and Typical Waveforms - SFH6700/01/02/11/12/19





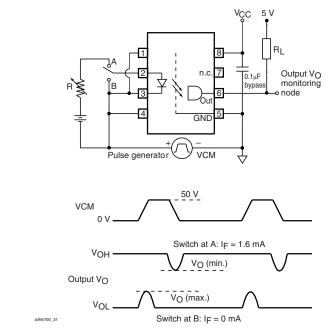
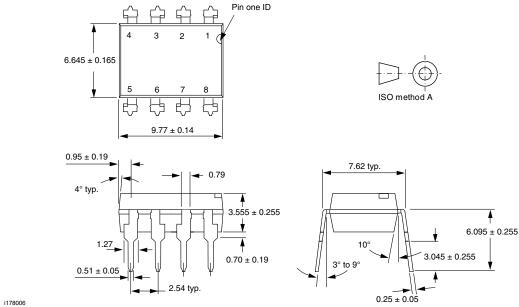


Fig. 31 - Test Circuit for Common Mode Transient Immunity and Typical Waveforms - SFH6705

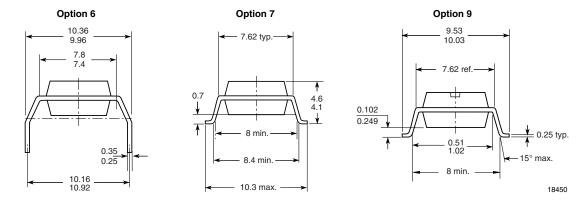


High Speed Optocoupler, 5 MBd, Vishay Semiconductors 1 kV/µs dV/dt

PACKAGE DIMENSIONS in millimeters









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Revision: 02-Oct-12 Document Number: 91000

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