



ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
OUTPUT				
Supply voltage		V _S	- 0.5 to 30	V
Output voltage		V _O	- 0.5 to 25	V
Collector output current		I _{CO}	8	mA
Derate linearly from 25 °C			1.33	mW/°C
Power dissipation	T _{amb} ≤ 70 °C	P _{diss}	50	mW
COUPLER				
Isolation test voltage	t = 1 s	V _{ISO}	5300	V _{RMS}
Pollution degree (DIN VDE0109)			2	
Creepage distance			≥ 7	mm
Clearance distance			≥ 7	mm
Derate linearly from 25 °C			1.93	mW/°C
Total package dissipation		P _{tot}	145	mW
Comparative tracking index per DIN IEC112/VDE0303 part 1, group IIIa per DIN VDE6110			175	
Isolation resistance	V _{IO} = 500 V, T _{amb} = 25 °C	R _{IO}	≥ 10 ¹²	Ω
	V _{IO} = 500 V, T _{amb} = 100 °C	R _{IO}	≥ 10 ¹¹	Ω
Storage temperature range		T _{stg}	- 55 to + 125	°C
Ambient temperature range		T _{amb}	- 55 to +100	°C
Soldering temperature (1)	max. 10 s, dip soldering distance to seating plane ≥ 1.5 mm	T _{slid}	260	°C

Notes

- 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.
- (1) Refer to reflow profile for soldering conditions for surface mounted devices (SMD). Refer to wave profile for soldering conditions for through hole devices (DIP).

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
INPUT (1)							
Forward voltage	I _F = 16 mA		V _F		1.33	1.9	V
Breakdown voltage	I _R = 10 μA		V _{BR}	4.5			V
Reverse current	V _R = 4.5 V		I _R		0.5	10	μA
Capacitance	V _R = 0 V, f = 1 MHz		C _O		30		pF
Temperature coefficient of forward voltage	I _F = 16 mA		ΔV _F /ΔT _{amb}		- 1.7		mV/°C
OUTPUT							
Logic low supply current	I _F = 16 mA, V _O = open, V _{CC} = 4.5 V		I _{CCL}		100	200	μA
Supply current, logic high	I _F = 0 mA, V _O = open, V _{CC} = 15 V		I _{CCH}		0.01	4	μA
Logic low output voltage	I _F = 16 mA, V _{CC} = 4.5 V, I _O = 1.1 mA	SFH6325	V _{OL}		0.1	0.5	V
	I _F = 16 mA, V _{CC} = 4.5 V, I _O = 3 mA	SFH6326	V _{OL}		0.1	0.5	V
Logic high output current	I _F = 0 mA, V _O = V _{CC} = 5.5 V		I _{OH}		3	500	nA
	I _F = 0 mA, V _O = V _{CC} = 15 V		I _{OH}			50	μA
Channel to channel (2) crosstalk	I _F = 16 mA, V _O = V _{CC} = 5.5 V		I _{OH-XT}			500	nA
COUPLER							
Capacitance (input to output)	f = 1 MHz		C _{IO}		0.6		pF

Notes

- 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.
- (1) T_{amb} = 0 °C to 70 °C, unless otherwise specified.
- (2) To measure crosstalk, turn on the LED for channel 1 and the output current for channel 2 in logic high. Repeat for channel 2.

CURRENT TRANSFER RATIO ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Current transfer ratio	$I_F = 16\text{ mA}$, $V_{CC} = 4.5\text{ V}$, $V_O = 0.4\text{ V}$, $T_{amb} = 25\text{ }^{\circ}\text{C}$	SFH6325	CTR	7	16		%
		SFH6326	CTR	19	35		%
	$I_F = 16\text{ mA}$, $V_{CC} = 4.5\text{ V}$, $V_O = 0.5\text{ V}$, $T_{amb} = 0\text{ }^{\circ}\text{C}$ to $70\text{ }^{\circ}\text{C}$	SFH6325	CTR	5			%
		SFH6326	CTR	15			%

SWITCHING CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
High to low	$I_F = 16\text{ mA}$, $V_{CC} = 5\text{ V}$, $R_L = 4.1\text{ k}\Omega$	SFH6325	t_{PHL}		0.3	1.5	μs
	$I_F = 16\text{ mA}$, $V_{CC} = 5\text{ V}$, $R_L = 1.9\text{ k}\Omega$	SFH6326	t_{PHL}		0.2	0.8	μs
Low to high	$I_F = 16\text{ mA}$, $V_{CC} = 5\text{ V}$, $R_L = 4.1\text{ k}\Omega$	SFH6325	t_{PLH}		0.6	1.5	μs
	$I_F = 16\text{ mA}$, $V_{CC} = 5\text{ V}$, $R_L = 1.9\text{ k}\Omega$	SFH6326	t_{PLH}		0.5	0.8	μs

COMMON MODE TRANSIENT IMMUNITY ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
CMTI at logic high level output	$I_F = 0\text{ mA}$, $C_{CM} = 10\text{ V}_{P-P}$, $V_{CC} = 5\text{ V}$, $R_L = 4.1\text{ k}\Omega$	SFH6325	CM_H		1000		$\text{V}/\mu\text{s}$
	$I_F = 0\text{ mA}$, $C_{CM} = 10\text{ V}_{P-P}$, $V_{CC} = 5\text{ V}$, $R_L = 1.9\text{ k}\Omega$	SFH6326	CM_H		1000		$\text{V}/\mu\text{s}$
CMTI at logic low level output	$I_F = 16\text{ mA}$, $C_{CM} = 10\text{ V}_{P-P}$, $V_{CC} = 5\text{ V}$, $R_L = 4.1\text{ k}\Omega$	SFH6325	CM_L		1000		$\text{V}/\mu\text{s}$
	$I_F = 16\text{ mA}$, $C_{CM} = 10\text{ V}_{P-P}$, $V_{CC} = 5\text{ V}$, $R_L = 1.9\text{ k}\Omega$	SFH6326	CM_L		1000		$\text{V}/\mu\text{s}$

TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

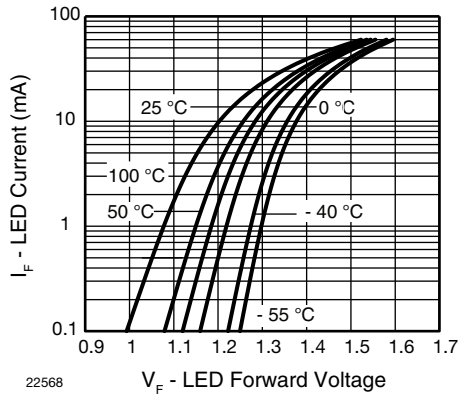


Fig. 1 - LED Forward Current vs. Forward Voltage

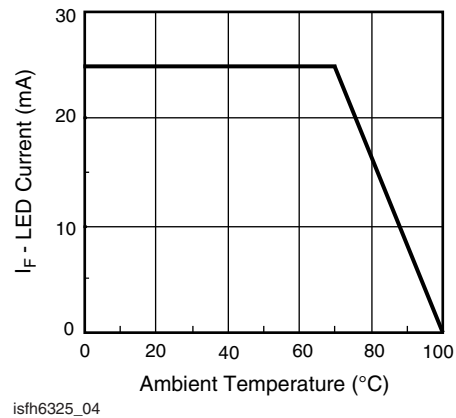
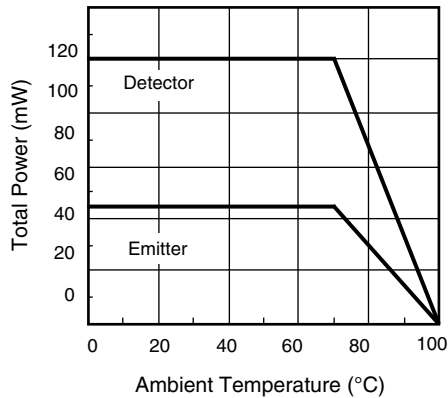
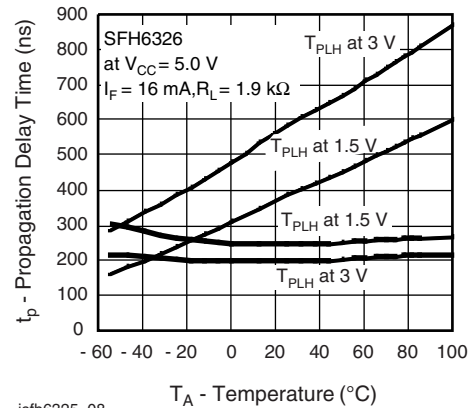


Fig. 2 - Permissible Forward LED Current vs. Temperature



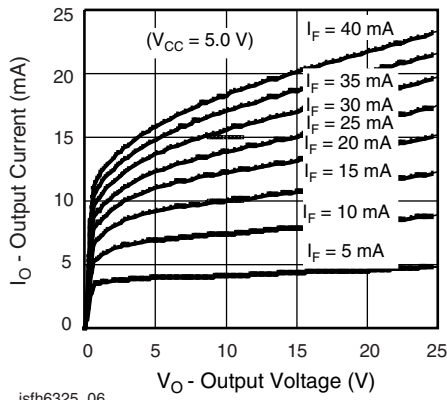
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Fig. 3 - Permissible Power Dissipation vs. Temperature



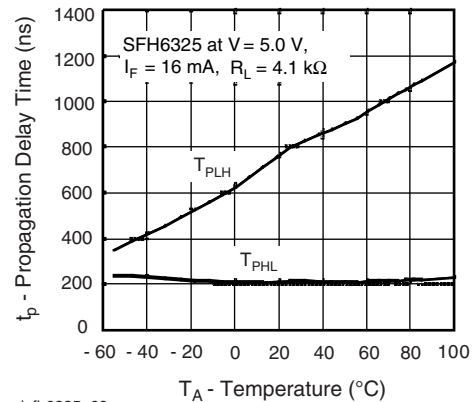
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Fig. 6 - Propagation Delay vs. Ambient Temperature



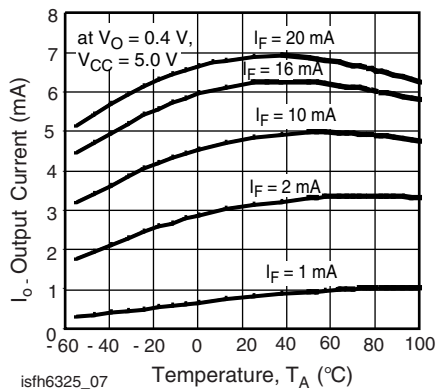
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Fig. 4 - Output Current vs. Output Voltage



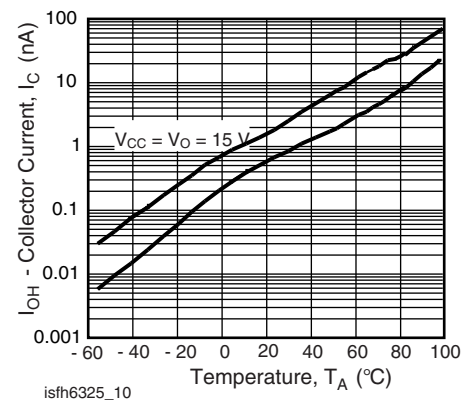
isfh6325_09

Fig. 7 - Propagation Delay vs. Ambient Temperature



isfh6325_07

Fig. 5 - Output Current vs. Temperature



isfh6325_10

Fig. 8 - Logic High Output Current vs. Temperature

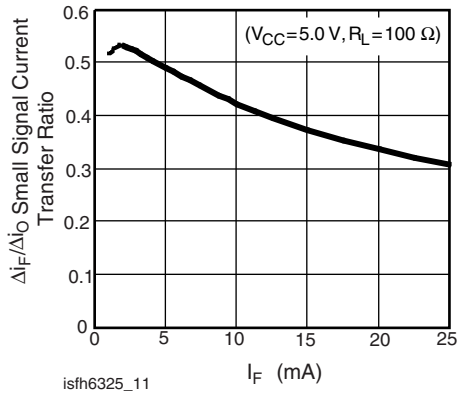


Fig. 9 - Small Signal Current Transfer Ratio vs. Input Current

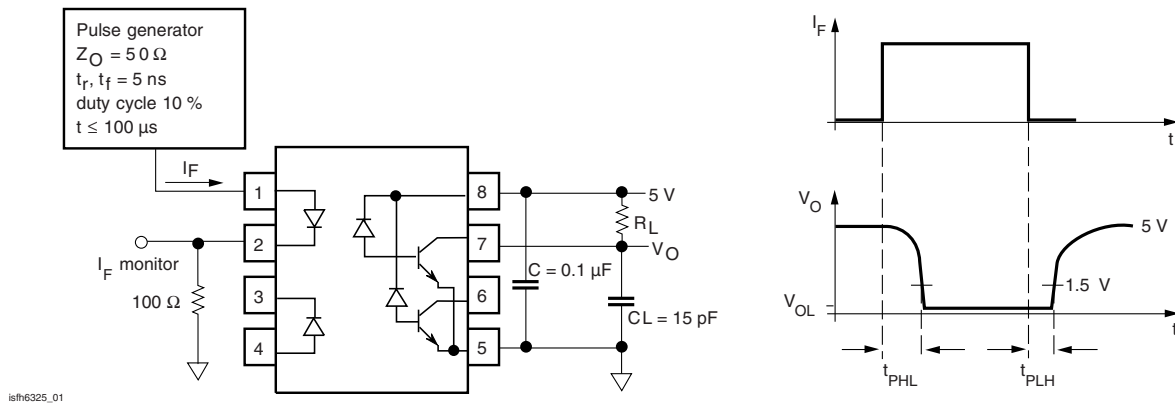


Fig. 10 - Switching Time and Test Circuit

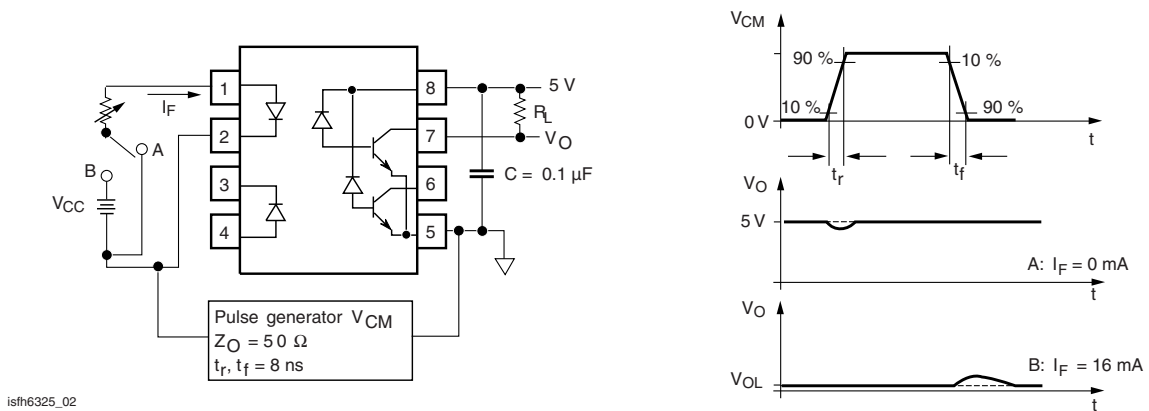
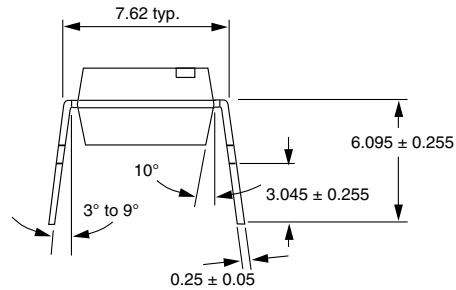
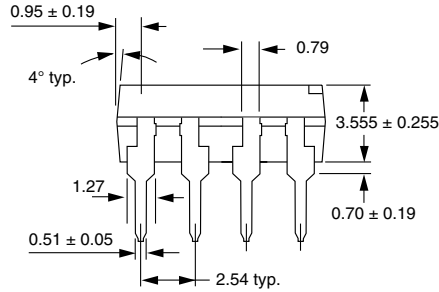
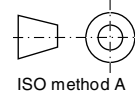
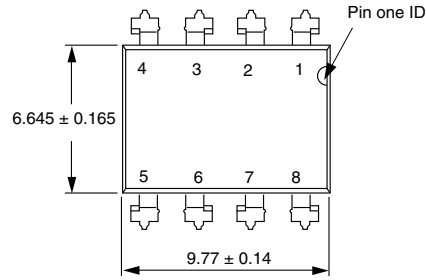


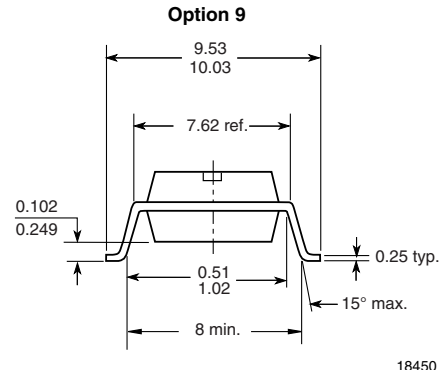
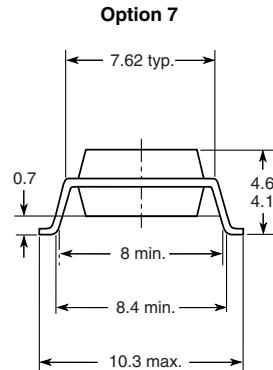
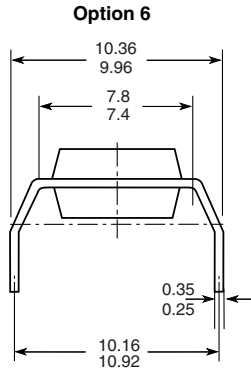
Fig. 11 - Waveform and Test Circuit for Common Mode Transient Immunity



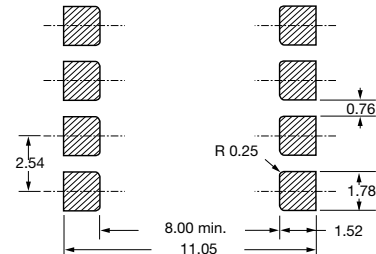
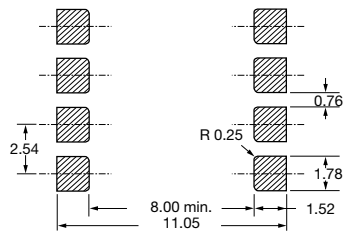
PACKAGE DIMENSIONS in millimeters



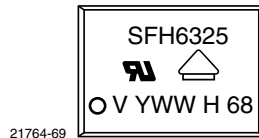
i178006



18450



PACKAGE MARKING



21764-69

Notes

- Only options 1 and 7 are reflected in the package marking.
- The VDE Logo is only marked on option1 parts.
- Tape and reel suffix (T) is not part of the package marking.



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