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## Introduction

We are pleased to present the updated Product Catalog for Distribution 2006/2007. This catalog outlines the full range of semiconductors available from Infineon Technologies through our distribution channel.

Reflecting the depth and range of our offering, this overview extends from communication devices and microcontrollers through power semiconductors and discretes to sensors and security solutions. For fast and easy reference, we have kept technical details to a minimum and added an overview of all device names and order codes at the back. Please refer to our data sheets, data books and user's manuals if you require in-depth technical data on a given product.

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## Explanation of Symbols

- ▼ Newly included components
- Components not suitable for new design
- ◆ Products available through dedicated distributors
- SMD (**S**urface **M**ounted **D**eVICES)  
gray lines indicate SMDs
- ® Registered trademark
- TM Trademark

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### I<sup>2</sup>C Bus

Purchase of Infineon Technologies I<sup>2</sup>C components conveys the license under the Philips I<sup>2</sup>C patent to use the components in the I<sup>2</sup>C system provided the system, conforms to the I<sup>2</sup>C specifications defined by Philips.

# Contents

## **Plastic Optical Fiber Components**

Plastic Fiber Components .....	6
Summary of Types .....	8

Type	Ordering Code	$\Phi_{in}$ Plastic Fibre $\mu W$	$\lambda_{peak}$ nm	$t_r$ $\mu s$	$t_f$ $\mu s$
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## Plastic Fiber Components

### Light-Link Diodes (Emitter)

(polished fiber ends;  $I_F = 10 \text{ mA}$ )

SFH 756	SP000063802	200 ( $\geq 100$ )	660	0.1	0.1
SFH 757	SP000063871	150 ( $\geq 100$ )	650	15	18

### Light-Link Diodes (Emitter) with Screw Connection

SFH 756 V	SP000063814	200 ( $\geq 100$ )	660	0.1	0.1
SFH 757 V	SP000063858	150 ( $\geq 100$ )	650	15	18

Type	Ordering Code	$I_p$ $V_R = 5 \text{ V}$ $\Phi_{in} = 10 \mu W$ $\mu A$	$\lambda_{Smax}$ nm	$V_{Rmax}$ V
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### Light-Link Diode (Detector)

SFH 250	SP000063866	3.0 ( $\lambda = 660 \text{ nm}$ )	850	30
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### Light-Link Diode (Detector) with Screw Connection

SFH 250 V	SP000063852	3.0 ( $\lambda = 660 \text{ nm}$ )	850	30
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Type	Ordering Code	$I_{CE}$ $\mu A$	$\lambda_{Smax}$ nm	$V_{CEO}$ V
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### Light-Link Transistor (Detector)

SFH 350	SP000063861	0.8 ( $\lambda = 660 \text{ nm}$ )	850	50
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### Light-Link Transistor (Detector) with Screw Connection

SFH 350 V	SP000063853	0.8 ( $\lambda = 660 \text{ nm}$ )	850	50
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Type	Ordering Code	Transmission Rate Mbit/s	$\Phi_{opt}^{1)}$ $\mu W$	$t_{PHL}, t_{PLH}$ ns
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### Light-Link Digital Emitter (TTL Compatible, open Collector)

SFH 551/1-1	SP000063860	5	6 ... 1000	< 100, < 250
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### Light-Link Digital Emitter (TTL Compatible) with Screw Connection

SFH 551/1-1V	SP000063855	5	6 ... 1000	< 100, < 250
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1) Optical output for "Low" measured at fibre end

## Plastic Optical Fiber Components

Type	Ordering Code	Description
<b>Plastic Fiber Components</b>		
<b>MOST®-Optical POF Transmitter and Receiver</b>		
▼ SPF MIR 003 02	SP000063793	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF receiver for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V, tube
▼ SPF MIT 003 02	SP000063798	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V, tube
▼ SPF MIR 401	SP000085239	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF receiver with extended temperature range (–40°C to 95°C) for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube
▼ SPF MIT 401	SP000085139	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter with extended temperature range (–40°C to 95°C) for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube
▼ SPF MIT 401+	SP000105135	Infineon's MOST® (Media Oriented Systems Transport) is a high-end POF transmitter with extended temperature range (–40°C to 95°C) and enhanced functionality for use in combination with the SMSC NIC OS8104, for in-car entertainment and information system, 50 Mbit/s, 650 nm LED and Si-detectors, 5 V (3.3 V on request), compliant to MOST PHY1.1, tube

## Summary of Types

Type	Ordering Code	Page	Type	Ordering Code	Page
<b>S</b>					
SFH 250	SP000063866	6			
SFH 250 V	SP000063852	6			
SFH 350	SP000063861	6			
SFH 350 V	SP000063853	6			
SFH 551/1-1	SP000063860	6			
SFH 551/1-1V	SP000063855	6			
SFH 756	SP000063802	6			
SFH 756 V	SP000063814	6			
SFH 757	SP000063871	6			
SFH 757 V	SP000063858	6			
SPF MIR 003 02	SP000063793	7			
SPF MIR 401	SP000085239	7			
SPF MIT 003 02	SP000063798	7			
SPF MIT 401	SP000085139	7			
SPF MIT 401+	SP000105135	7			

