Optical Device

- Fiber Optic Communication/ Light Beam Application Devices
- Photo Detectors
- Photocoupler
- OCMOS FET ™
- POF Link
- Infra-Red Link Unit

Fiber Optic Communication/Light Beam Application Devices

Product Map of Optical Communication/ Light Beam Application Device

Laser Diodes

- Visible LD for Beam Applications
- For Fiber Optic Communications
  - Fabry Perrot LD
  - DFBLD
- For Analog Applications
- For EDFA Pumping and High Power OTDR Applications

Detectors

- PIN Photo Diodes
- Avalanche Photo Diodes

Photo Detectors

PIN Photo-diode

- PIN photo-diode for remote control application

Light Receiving IC

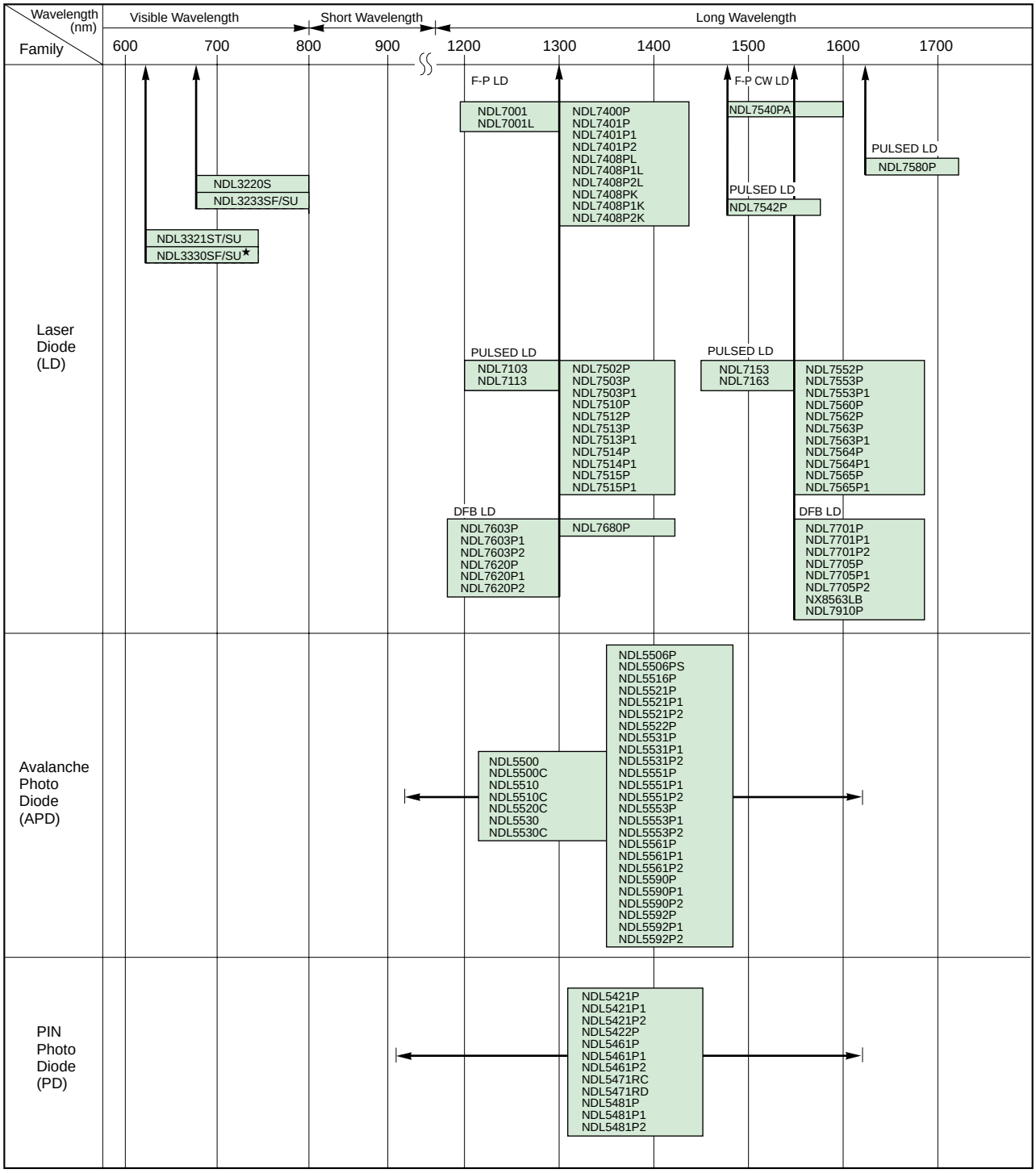
- Photo-diode with built-in amplifier for Optical Storage (Custom device)

Photocoupler

- General-purpose Tr. Photocoupler
- SOP Photocoupler
- High Speed Photocoupler
- Analog Linear Photocoupler
- High Speed Photocoupler
- Inverter Control Photocoupler

Fiber Optic Communication/Light Beam Application Devices

■ Product map of optical communication/light beam application device



⟶ : Mark wavelength or operating range

★: Under development

Modules are available with FC-PC or SC-PC connector.

Fiber Optic Communication/Light Beam Application Devices

Laser Diodes

■ Visible LD for Beam Applications

Part number	Absolute maximum ratings			Typical characteristics						Remarks
	P_O/P_f (mW)	T_C (°C)	T_{stg} (°C)	I_{th} (mA)	I_{op} (mA)	P_o/P_f (mW)	λ_p (nm)	$\theta\perp$ (deg)	$\theta//$ (deg)	
				TYP.	TYP.	TYP.	TYP.	TYP.	TYP.	
NDL3220S	6	–10 to +60	–40 to +85	20	30	5	670	30	8	Low threshold current
NDL3233SF/SU	35	–10 to +70	–40 to +100	50	100	35	685	21	9	Magneto-optical disk application
NDL3321ST/SU	6	–10 to +70	–40 to +85	40	60	5	650	30	8	DVD application
NDL3330SF/SU★	35	–10 to +70	–40 to +100	50	100	30	660	21	9	DVD-RAM, High density Magneto-optical disk application

★: Under development

Fiber Optic Communication/Light Beam Application Devices

Laser Diodes

■ For Fiber Optic Communications (Fabry Perrot LD)

Part number	Absolute maximum ratings			Typical characteristics (25°C)					Remarks
	I_F (mA)	T_C (°C)	T_{stg} (°C)	P_o / P_f (mW)	I_{th} (mA)	λ_c (nm)	σ *2 (nm)	t_r / t_f (ns)	
				MIN.	TYP.	TYP.	TYP.	MAX.	
NDL7001	–	–40 to +85	–55 to +125	5.0	10	1310	1.0	0.5/0.5	with monitor PD, small package
NDL7001L	–	–40 to +85	–55 to +125	5.0	10	1310	1.0	0.5/0.5	with monitor PD, small package
NDL7400P	I_{th}+50	–20 to +65	–40 to +70	2.0*1	10	1310	1.0	1.0/1.0	with TEC
NDL7401P/P1/P2	I_{th}+50	–40 to +85	–40 to +85	2.0	10	1310	1.3	0.5/0.5	with monitor PD
NDL7408PL/P1L/P2L	I_{th}+50	–40 to +85	–40 to +85	0.2	10	1310	1.3	0.5/0.5	with monitor PD
NDL7408PK/P1K/P2K	I_{th}+50	–40 to +85	–40 to +85	1.0	10	1310	1.3	0.5/0.5	with monitor PD
NDL7800P★	I_{th}+50	–40 to +85	–40 to +85	0.2	5	1310	2.0	0.5/0.5	Ceramic mini DIL

*1: TYP.

*2: RMS (–20 dB)

★: Under development

Fiber Optic Communication/Light Beam Application Devices

Laser Diodes

■ For Fiber Optic Communications (DFBLD)

Part number	Absolute maximum ratings				Typical characteristics				Remarks
	I_F (mA)	P_o / P_f (mW)	T_C (°C)	T_{stg} (°C)	P_o / P_f (mW)	I_{th} (mA)	λ_p (nm)	t_r / t_f (ns)	
					MIN.	TYP.	TYP.	TYP.	
NDL7603P/P1/P2	150	5	−40 to +85	−40 to +85	2.0	50*1	1310	0.5/0.5	with monitor PD
NDL7620P/P1/P2	150	5	0 to +70	−40 to +85	2.0	45*1	1310	0.04/0.1	with monitor PD
NDL7701P/P1/P2	150	5	−20 to +85	−40 to +85	2.0	15	1550	0.5/0.5	with monitor PD
NDL7705P/P1/P2	I_{th} + 50	5	−40 to +85	−40 to +85	2.0	50*1	1550	0.5/0.5	with monitor PD
NX8563LB	300	–	−20 to +65	−40 to +85	10*2	20	ITU-T*3	–	with PMF fiber
NDL7910P	150	20	−20 to +70	−40 to +85	0.5	7	1550*4	0.125/ 0.125	Integrated Modulator for 2.5G

∗1: MAX.

∗2: TYP.

∗3: Wavelength selectable for ITU-T standards.

∗4: Wavelength selectable for ITU-T standards upon request.

Fiber Optic Communication/Light Beam Application Devices

Laser Diodes

■ For Analog Applications

Part number	Absolute maximum ratings				Typical characteristics (25°C)						Remarks
	I_F (mA)	P_f (mW)	T_C (°C)	T_{stg} (°C)	I_{th} (mA)	P_f (mW)	λ_p (nm)	RIN (dB/Hz)	CSO (dBc)	CTB (dBc)	
					TYP.	MIN.	TYP.	TYP.	TYP.	TYP.	
NDL7680P	150	15	−20 to +65	−40 to +70	20	3	1310	−155	−55	−60	with monitor PD, isolator and TEC

Fiber Optic Communication/Light Beam Application Devices

Laser Diodes

■ For EDFA Pumping and High Power OTDR Applications

Part number	Absolute maximum ratings			Typical characteristics						Remarks
	I_F (mA)	T_C (°C)	T_{stg} (°C)	I_{th} (mA) TYP.	I_{op} (mA) TYP.	P_o / P_f (mW) TYP.	λ_C (nm) TYP.	σ *1 (nm) MAX.	t_r / t_f (ns) MAX.	
NDL7540PA	600	–20 to +70	–40 to +85	40	500	110	1480	8	–	with TEC, thermistor and m-PD
NDL7542P	600*2	–20 to +65	–40 to +70	30	500*2	80*2	1480*2	10	2/2	with TEC
NDL7103	1200*2	–40 to +70	–55 to +125	35	1000*2	320*2	1310*2	7	2/2	ø5.6 can
NDL7113	600*2	–40 to +70	–55 to +125	20	400*2	175*2	1310*2	10	1/1	ø5.6 can
NDL7502P	1200*2	–20 to +65	–40 to +70	35	1000*2	190*2	1310*2	10	2/2	with TEC
NDL7503P/P1	1200*2	–20 to +60	–40 to +85	35	1000*2	180*2	1310*2	10	2/2	
NDL7510P	600*2	–20 to +65	–40 to +70	20	400*2	55*2	1310*2	10	1/1	with TEC
NDL7512P	600*2	–20 to +65	–40 to +70	20	400*2	110*2	1310*2	10	1/1	with TEC
NDL7513P/P1	600*2	–20 to +60	–40 to +85	20	400*2	110*2	1310*2	10	1/1	
NDL7514P/P1	600*2	–20 to +60	–40 to +85	20	400*2	50*2	1310*2	10	1/1	
NDL7515P/P1	600	–20 to +60	–40 to +85	20	400*2	30*2	1310*2	10	1/1	
NDL7153	1200*2	–40 to +70	–55 to +125	45	1000*2	240*2	1550*2	8	2/2	ø5.6 can
NDL7163	600*2	–40 to +70	–55 to +125	30	400*2	120*2	1550*2	10	1/1	ø5.6 can
NDL7552P	1200*2	–20 to +65	–40 to +70	40	1000*2	125*2	1550*2	10	2/2	with TEC
NDL7553P/P1	1200*2	–20 to +60	–40 to +85	45	1000*2	145*2	1550*2	10	2/2	
NDL7560P	600*2	–20 to +65	–40 to +70	20	400*2	30*2	1550*2	10	1/1	with TEC
NDL7562P	600*2	–20 to +65	–40 to +70	40	400*2	80*2	1550*2	10	1/1	with TEC
NDL7563P/P1	600*2	–20 to +60	–40 to +85	40	400*2	80*2	1550*2	10	1/1	
NDL7564P/P1	600*2	–20 to +60	–40 to +85	40	400*2	40*2	1550*2	10	1/1	
NDL7565P/P1	600	–20 to +60	–40 to +85	20	400	11	1310*2	10	1/1	
NDL7580P	1200*2	–20 to +65	–40 to +85	30	1000*2	100*2*3	1625	15	2/2	with TEC

*1: RMS (–20 dB)

*2: Pulse conditions; pulse width = 10 μs, duty = 1% (modules)
pulse width = 1 μs, duty = 1% (ø5.6 can)

*3: MIN.

Fiber Optic Communication/Light Beam Application Devices

Detectors

■ PIN Photo Diodes

Part number	Absolute maximum ratings				Detecting area size (μm)	Typical characteristics							Package	Remarks
						I_D (nA)		C_t (pF)		S (A/W)		f_C (GHz)		
	I_F (mA)	I_R (mA)	T_C (°C)	T_{stg} (°C)		V_R (V)	TYP.	V_R (V)	TYP.	λ (nm)	TYP.	MIN.		
NDL5471RC/RD	10	0.5	−40 to +85	−40 to +85	ø120	5	0.1	5	1.1	1300	0.89	1.5	Receptacle package	RC: FC type receptacle module RD: SC type receptacle module
										1550	1.00			
NDL5461P/P1/P2	10	–	−40 to +85	−40 to +85	ø80	5	0.1	5	1.0	1300	0.89	2.5	Coaxial module (With MMF)	P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.94			
NDL5481P/P1/P2	10	–	−40 to +85	−40 to +85	ø80	10	0.1	10	0.7	1300	0.85	2.5	Coaxial module (With SMF)	for analog applications P: Without flange P1: With flat mount flange P2: With vertical flange
NDL5421P/P1/P2	10	0.5	−40 to +85	−40 to +85	ø50	5	0.1	5	0.7	1300	0.89	2.5	Coaxial module (With MMF)	P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.94			
NDL5422P	–	0.5	−40 to +70	−40 to +85	ø50	5	0.1	–	–	–	–	2.5	BFY Package (6-pin) (With MMF)	With Pre-AMP $\overline{P}$ = −23 dBm typ. 2.5 Gb/s

Fiber Optic Communication/Light Beam Application Devices

Detectors

■ Avalanche Photo Diodes

Type	Part number	Absolute maximum ratings				Detecting area size (μm)	Typical characteristics									Package	Remarks
		I_F (mA)	I_R (mA)	T_C (°C)	T_{stg} (°C)		$V_{(BR)R}$ (V)	I_D (nA)		S (A/W)		M	f_C (GHz)	t_r / t_f (ns)		
							TYP.	V_R (V)	TYP.	λ (nm)	TYP.	TYP.	MIN.	TYP.		
InGaAs-APD	NDL5510	10	0.5	−40 to +70	−55 to +100	ø80	75	$V_{(BR)R}$×0.9	8	1300	0.89	40	0.7	–	CAN Package	
										1550	1.00					
	NDL5510C	10	0.5	−40 to +70	−55 to +100	ø80	75	$V_{(BR)R}$×0.9	8	1300	0.89	40	0.7	–	Chip on carrier	
										1550	1.00					
	NDL5500	10	0.5	−40 to +70	−55 to +100	ø50	70	$V_{(BR)R}$×0.9	5	1300	0.89	40	1.0	–	CAN Package	
										1550	1.00					
	NDL5500C	10	0.5	−40 to +70	−55 to +100	ø50	70	$V_{(BR)R}$×0.9	5	1300	0.89	40	1.0	–	Chip on carrier	
										1550	1.00					
	NDL5520C	10	0.5	−40 to +70	−55 to +100	ø50	55	$V_{(BR)R}$×0.9	5	1300	0.89	40	2.5	–	Chip on carrier	for 2.5 Gb/s (ø50)
										1550	1.00					
	NDL5530	10	0.5	−40 to +85	−55 to +100	ø30	70	$V_{(BR)R}$×0.9	5	1300	0.94	40	2.5	–	CAN Package	
										1550	0.96					
	NDL5530C	10	0.5	−40 to +85	−55 to +100	ø30	70	$V_{(BR)R}$×0.9	5	1300	0.94	40	1.0	–	Chip on carrier	
										1550	0.96					
	NDL5531P /P1/P2	10	0.5	−40 to +85	−40 to +85	ø30	70	$V_{(BR)R}$×0.9	5	1300	0.94	40	2.5	–	Coaxial Module	P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5561P /P1/P2	10	0.5	−40 to +85	−40 to +85	ø80	75	$V_{(BR)R}$×0.9	8	1300	0.94	40	1.0	–	Coaxial Module (With MMF GI-62.5)	P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5551P /P1/P2	10	0.5	−40 to +85	−40 to +85	ø50	70	$V_{(BR)R}$×0.9	5	1300	0.94	40	1.0	–	Coaxial module (With MMF)	P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5521P /P1/P2	10	0.5	−40 to +85	−40 to +85	ø50	55	$V_{(BR)R}$×0.9	5	1300	0.94	40	2.5	–	Coaxial module (With MMF)	for 2.5 G Applications P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5553P /P1/P2	10	0.5	−40 to +85	−40 to +85	ø50	70	M = 20	50	1300	0.89	20*1	–	0.5*2	Coaxial module (With MMF)	for OTDR Applications P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.94					
	NDL5516P	10	0.5	−20 to +55	−40 to +85	ø80	75	$V_{(BR)R}$×0.9 I_C=1.1A@55°C	2	1300	0.89	40	0.7	–	DIP module (With MMF GI-62.5)	for OTDR Applications With TEC $\Delta T \geq 45K$
										1550	1.00					
	NDL5506P /PS	10	0.5	−20 to +55	−40 to +85	ø50	70	$V_{(BR)R}$×0.9 I_C=1.1A@55°C	2	1300	0.89	40	1.0	–	DIP module	for OTDR Applications With TEC $\Delta T \geq 45K$ P: With MMF, PS: With SMF
										1550	1.00					
	NDL5590P /P1/P2	–	0.5	−40 to +85	−40 to +85	ø50	70	$V_{(BR)R}$×0.9	5	1300	0.94	–	1.0	–	Coaxial module (With MMF)	With Pre-AMP $\overline{P}$ = – 36 dBm typ. 622 Mb/s P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5592P /P1/P2	–	0.5	−40 to +85	−40 to +85	ø30	70	$V_{(BR)R}$×0.9	5	1300	0.94	–	2.5	–	Coaxial module (With SMF)	With Pre-AMP $\overline{P}$ = −33 dBm typ. 2.488 Gb/s P: Without flange P1: With flat mount flange P2: With vertical flange
										1550	0.96					
	NDL5522P	–	0.5	−40 to +70	−40 to +85	ø50	55	$V_{(BR)R}$×0.9	5	–	–	–	2.5	–	BFY Package (6-pin) (With MMF)	With Pre-AMP $\overline{P}$ = −33 dBm typ. 2.5 Gb/s

*1: MIN.

*2: MAX.

Photo Detectors

PIN Photo-diode

■ **PIN photo-diode for remote control application**

Part number	Features	Absolute maximum ratings (T_A = 25 °C)		Electrical characteristics (T_A = 25 °C)			Package (package No.)
		V_R (V)	P_C (mW)	Sensitivity (nA/lx) (V_R = 5 V)	I_D (nA) (V_R = 10 V)	t_r (ns) (R_L = 1 kΩ)	
PH302	Mold case	32	150	50*1 (6 (μA)*2)	~ 30	50	P10
PH302C	Mold case Visible ray cut filter	32	150	32*1 (5 (μA)*2)	~ 30	50	P10
PH310	Small mold case with lens Visible ray cut resin	32	150	32*1 (5 (μA)*2)	~ 10	30	P13
PH320	Small mold case with lens Visible ray cut resin	32	150	4.3 (μA)*2	~ 10	30	P13

*1: Light source color temperature 2854K
*2: Sensitivity (@H = 0.1 mW/cm^2) for infrared ray (λ_P = 940 nm)

Package (package appearance)

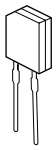
Package		
Package No.	P10	P13

Photo Detectors

Light Receiving IC

■ **Photo-diode with built-in amplifier for Optical Storage (Custom device)**

Part number	Absolute maximum ratings (T_A = 25 °C)				Light-electrical typical characteristics (T_A = 25 °C)						Remarks
	V_{CC} (V)	I_{CC} (mA)	P_D (mW)	T_{stg} (°C)	V_{CC} (V)	V_O		S		f_T (MHz)	
						Focus (mV)	Tracking (mV)	λ (nm)	(A/W)		
					TYP.	TYP.	TYP.		TYP.	TYP.	
PH5××★	9	–	100	–25 to +80	5	350	550	650	–	50	With internal amplifier

★: Under development

Photocoupler

■ General-purpose Tr. Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_{CEO} (V)	CTR (%)	Package	Remarks
PS2501-1 to -4	High isolation voltage	5 kVr.m.s.	80	80	80 to 600	• 4- to 16-pin DIP (multi)	Single transistor output
PS2502-1 to -4				40	200 ~		Darlington transistor output
PS2503-1 to -4			50	40	100 to 400		Single transistor output
PS2505-1 to -4			±80	80	80 to 600		AC input Single transistor output
PS2506-1 to -4				40	200 ~		AC input Darlington transistor output
PS2521-1 to -4	High isolation voltage Large current input	5 kVr.m.s.	150	80	20 to 80	• 4-pin DIP	Single transistor
PS2525-1 to -4			±150				Darlington transistor
PS2532-1 to -4	High isolation voltage (VDE0884 Option)	5 kVr.m.s. (3.75 kVr.m.s.)	80	300	1500 to 6500	• 4- to 16-pin DIP (multi)	Darlington transistor
PS2533-1 to -4				350	1500 to 6500		
PS2561-1 to -2				80	80 to 400		Single transistor
PS2562-1 to -2					200 ~		Darlington transistor
PS2565-1 to -2			±80		80 to 400		Single transistor
PS2566-1 to -2					200 ~		Darlington transistor
PS2581L1/L2	High isolation voltage Long creepage type (8 mm) (VDE0884 Standard)	5 kVr.m.s.	80	80	80 to 400	• 4-pin DIP	Single transistor
PS2601	High isolation voltage	5 kVr.m.s.	80	80	80 to 600	• 6-pin DIP	Single transistor With base
PS2602							Single transistor Without base
PS2603				40	200 ~		Darlington transistor With base
PS2604							Darlington transistor Without base
PS2605			±80	80	80 to 600		AC input Single transistor With base
PS2606							AC input Single transistor Without base
PS2607				40	200 ~		AC input Darlington transistor With base
PS2608							AC input Darlington transistor Without base
PS2621	High isolation voltage Large current input	5 kVr.m.s.	150	80	20 to 50	• 6-pin DIP	Single transistor With base
PS2622							Single transistor Without base
PS2625			±150				AC input Single transistor With base
PS2626							AC input Single transistor Without base
PS2633	High isolation voltage High V_{CEO}		80	300	1000 to 15000		Darlington transistor With base
PS2634							Darlington transistor Without base
PS2651	High isolation voltage (VDE0884 Option)			80	50 to 400	• 6-pin DIP (lead forming)	Single transistor With base
PS2652							Single transistor Without base
PS2653				40	200 ~		Darlington transistor With base
PS2654							Darlington transistor Without base

Photocoupler

■ SOP Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_{CEO} (V)	CTR (%)	Package	Remarks
PS2701-1,-2,-4	High isolation voltage	3.75 kVr.m.s.	50	40	50 to 300	• SOP (2.54 mm pitch)	Single transistor
PS2702-1,-2,-4					200 ~		Darlington transistor
PS2703-1,-2,-4				120	50 to 400		Single transistor
PS2705-1,-2,-4			±50	40	50 to 300		AC input, Single transistor
PS2706-1,-2,-4					200 ~		AC input, Darlington transistor
PS2707-1,-2,-4				120	50 to 400		AC input, Single transistor
PS2732-1,-2,-4	High isolation voltage High V_{CEO} (VDE0884 Option)		50	300	1500 to 6500		Darlington transistor
PS2733-1,-2,-4				350			
PS2801-1	High isolation voltage	2.5 kVr.m.s.	50	80	80 to 600	• SOP (1.27 mm pitch)	Single transistor
PS2802-1				40	200 ~		Darlington transistor
PS2805-1			±50	80	80 to 600		AC input, Single transistor
PS2806-1			50	40	200 ~		AC input, Darlington transistor
PS2801-4				80	80 to 600		Single transistor
PS2802-4				40	200 ~		Darlington transistor
PS2805-4			±50	80	80 to 600		AC input, Single transistor
PS2806-4			50	40	200 ~		AC input, Darlington transistor
PS2832-1★	High V_{CEO}		50	300	400 ~		Darlington transistor

★: Under development

Photocoupler

■ High Speed Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_{CC} (V)	CTR (%)	Package	Remarks
PS8701	High speed 1 Mbps High CMR 10 kV/μs	2.5 kVr.m.s.	25	35	15 ~	• 5-pin SOP	Photodiode + transistor
PS8601	High speed 1 Mbps (VDE0884 Option)	5 kVr.m.s.			15 ~	• 8-pin DIP	Photodiode + transistor with base
PS8602							Photodiode + transistor

Photocoupler

■ Analog Linear Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_R (V)	$\Delta K3$ (%)	Package	Remarks
PS8741★	High linearity	1.5 kVr.m.s.	50	20	~ 1	• 16-pin SOP	for optical DAA

★: Under development

Photocoupler

■ High Speed Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_{CC} (V)	t_{PHL}, t_{PLH} (ns)	Package	Remarks
PS9601	High speed 10 Mbps (IC output)	5 kVr.m.s.	30	7	50 (TYP.)	• 8-pin DIP	
PS9701	High speed 10 Mbps (IC output) (VDE0884 Option)	2.5 kVr.m.s.			50 (TYP.)	• 5-pin SOP	
PS9611★	High CMR High speed 10 Mbps					• 8-pin DIP	CMR 10 kV/μs
PS9711★						• 5-pin SOP	

★: Under development

Photocoupler

■ Inverter Control Photocoupler

Part number	Features	BV_{1-2}	I_F (mA)	V_{CC} (V)	I_{O2} (A)	Package	Remarks
PS9634	High output, high noise immunity (VDE0884 Option)	5 kVr.m.s.	30	18	0.8	• 8-pin DIP	Built-in amplifier

OCMOS FET™

■ OCMOS FET

Part number	Features	V_{I-O} (V)	V_L (V)	I_L (mA)	R_{on} (Ω)	Package	Remarks
PS7112-1A	General use	1500	100	200	6	6-pin DIP (1-ch)	
PS7113-1A			100	350	2.5		
PS7122-1A			200	200	5		
PS7122A-1A			250	200	8		
PS7122A-1B			250	200	8		1b output
PS7141-1A			400	150	30		
PS7141-1B			400	150	30		1b output
PS7142-1A			400	150	10		
PS7160-1A			600	90	50		
PS7111-2A			100	100	6	8-pin DIP (2-ch)	
PS7113-2A			100	350	2.5		
PS7122-2A			200	200	5		
PS7122A-2A			250	200	8		
PS7122A-2B			250	200	8		1b + 1b output
PS7122A-1C			250	200	8		1a + 1b output
PS7141-2A			400	150	30		
PS7141-2B			400	150	30		1b + 1b output
PS7141-1C			400	150	30		1a + 1b output
PS7142-2A			400	200	12		1a + 1a output
PS7160-2A			600	90	50		
PS7200A-1A			40	100	12	4-pin SOP (1-ch)	Low capacitance 2.9 pF
PS7200B-1A			40	250	1.5		Low on-state resistance
PS7241-1A			400	120	35		
PS7241-1B			400	120	35		1b output
PS7211-2A			100	100	6	8-pin SOP (2-ch)	
PS7221-2A			200	120	8		
PS7241-2A			400	120	30		
PS7241-2B			400	120	30		1b + 1b output
PS7241-1C			400	120	30		1a + 1b output
PS7341-1A	High isolation voltage	3750	400	150	30	6-pin DIP (1-ch)	
PS7342-1A			400	200	10		
PS7360-1A			600	90	50		
PS7341C-1A			400	150	35		Current limit I_{LMT} 170 to 250 mA
PS7342C-1A			400	200	20		
PS7522-1A	Slow speed	1500	200	200	5	6-pin DIP	
PS7522-2A			200	200	5	8-pin DIP	
PS7241-AT1	Multi function	1500	200	120	30	8-pin SOP (2-ch)	OCMOS FET + photocoupler
PS7241-AT5			200	120	30		
PS7841-A15★			400	120	30	16-pin SOP	for DAA

★: Under development

POF Link

■ POF Link

Part number	Absolute maximum rating (T_C = 25 °C)		Electrical characteristics (T_C = 25 °C)		
	V_{CC} (V)	T_C (°C)	Transmission speed (bps)	Transmission distance (m)	
				@SI-POF	@SI-HPCF
NL2100	0 to 6	0 to 70	156	50	100

Infra-Red Link Unit

■ Infra-Red Link Unit (Conform to IrDA Ver. 1.1 / 1.0)

Part number	Absolute maximum rating (T_A = 25 °C)		Electrical characteristics (T_A = 25 °C)			Remarks
	V_{CC} (V)	Topt (°C)	Data rate (bps)	Transmission distance (m)	Viewing angle (deg.)	
NL1100	5	0 to +70	2.4 k to 4 M	~ 1.0	30	IrDA 1.1
NL1000★	3	0 to +70	2.4 k to 115.2 k	~ 1.0	30	IrDA 1.0

★: Under development

SUNSTAR实业集团是集研发、生产、工程、销售、代理经销 、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有 10 多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一,是一家专业代理和分銷世界各大品牌IC芯片和電子元器件的连锁经营綜合性国际公司。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。 我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。**专业以现代信息产业（计算机、通讯及传感器）三大支柱之一的传感器为主营业务，专业经营各类传感器的代理、销售生产、网络信息、科技图书资料及配套产品设计、工程开发。我们的专业网站——中国传感器科技信息网（全球传感器数据库） www.SENSOR-IC.COM 服务于全球高科技生产商及贸易商，为企业科技产品开发提供技术交流平台。欢迎各厂商互通有无、交换信息、交换链接、发布寻求代理信息。欢迎国外高科技传感器、变送器、执行器、自动控制产品厂商介绍产品到 中国，共同开拓市场。**本网站是关于各种传感器-变送器-仪器仪表及工业自动化大型专业网站,深入到工业控制、系统工程计 测计量、自动化、安防报警、消费电子等众多领域，把最新的传感器-变送器-仪器仪表买卖信息,最新技术供求,最新采购商,行业动态，发展方向，最新的技术应用和市场资讯及时的传递给广大科技开发、科学研究、产品设计人员。本网站已成功为石油、化工、电力、医药、生物、航空、航天、国防、能源、冶金、电子、工业、农业、交通、汽车、矿山、煤炭、纺织、信息、通信、IT、安防、环保、印刷、科研、气象、仪器仪表等领域从事科学研究、产品设计、开发、生产制造的科技人员、管理人员 、和采购人员提供满意服务。 **我公司专业开发生产、代理、经销、**销售各种传感器、变送器、敏感元器件、开关、执行器、仪器仪表、自动化控制系统： 专门从事设计、生产、销售各种传感器、变送器、各种测控仪表、热工仪表、现场控制器、计算机控制系统、数据采集系统、各类环境监控系统、专用控制系统应用软件以及嵌入式系统开发及应用等工作。如热敏电阻、压敏电阻、温度传感器、温度变送器、湿度传感器、 湿度变送器、气体传感器、 气体变送器、压力传感器、 压力变送、称重传感器、物（液）位传感器、物（液）位变送器、流量传感器、 流量变送器、电流（压）传感器、溶氧传感器、霍尔传感器 、图像传感器、超声波传感器、位移传感器、速度传感器、加速度传感器、扭距传感器、红外传感器、紫外传感器、 火焰传感器、激光传感器、振动传感器、轴角传感器、光电传感器、接近传感器、干簧管传感器、继电器传感器、微型电泵、磁敏（阻）传感器 、压力开关、接近开关、光电开关、色标传感器、光纤传感器、齿轮测速传感器、 时间继电器、计数器、计米器、温控仪、固态继电器、调压模块、电磁铁、电压表、电流表等特殊传感器 。 同时承接传感器应用电路、产品设计和自动化工程项目。

欢迎索取免费详细资料、设计指南和光盘 ；产品凡多，未能尽录，欢迎来电查询。

更多产品请看本公司产品专用销售网站:
中国传感器科技信息网：http://www.sensor-ic.com/工控安防网：http://www.pc-ps.net/
电子元器件网：http://www.sunstare.com/微波光电产品网:HTTP://www.rfoe.net/
消费电子产品网://www.icasic.com/军工产品网:http://www.junpinic.com/
实业科技产品网://www.sunstars.cn/传感器销售热线：
电话：0755-83607652 83376489 83376549 83370250 83370251
传真：0755-83376182 （0）13902971329 MSN: SUNS8888@hotmail.com
邮编：518033 E-mail:szss20@163.com QQ: 195847376
技术支持：0755-83394033 13501568376