

Bauelemente für die LWL-Technik und Leistungslaser

Semiconductor Devices for Fiber- Optic Systems and High-Power Lasers

Detektoren für Glasfaseranwendungen

Silizium-PIN-Fotodioden

für das 1. Durchlaßfenster (800 – 900 nm)

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, Bauteile nach Bellcore Spezifikation qualifiziert.

Detectors for glass fiber applications

Silicon PIN photodiodes

for 800 to 900 nm wavelength (1st window)

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, devices are qualified acc. to Bellcore spec.

Type	Max. ratings V_R V	Characteristics at $T_{sub} = 25^{\circ}\text{C}$					Bit rate Mbit/s	Bestellnummer Ordering code	Fig.
		A mm ²	λ_{smax} nm	S_{λ} $\lambda = 850\text{ nm}$ A/W	C_{20} $V_R = 20\text{ V}$ pF	I_R $V_R = 20\text{ V}$ nA			
■ SFH 202	50	1	850	0.55	3	≤ 5	550	Q62702-P91	9
SRD 00111Z	50	1	850	0.55	3	≤ 5	≤ 565	Q62702-P3019	10

■ Nicht für Neuentwicklung.

■ Not for new design.

InGaAs/InP-PIN-Fotodioden

für das 2. (1300 nm) und 3. (1550 nm) Durchlaßfenster

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, Bauteile nach Bellcore Spezifikation qualifiziert.

InGaAs/InP PIN photodiodes

for 1300 nm (2nd window) and 1550 nm (3rd window) wavelength

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, devices are qualified acc. to Bellcore spec.

Type	Max. ratings Switching time ($V_R = 5\text{ V}$, $\lambda = 1310\text{ nm}$, $R_L = 50\ \Omega$) ns	Characteristics at $T_{sub} = 25\text{ }^{\circ}\text{C}$				Bit rate	Bestellnummer Ordering code	Fig.
		λ_{smax} nm	S_{λ} $\lambda = 1300\text{ nm}$ A/W	C_5 $V_R = 5\text{ V}$ pF	I_R $V_R = 5\text{ V}$ nA	Mbit/s		
SRD 00212W	< 0.5	1250 ... 1580	≥ 0.8	≤ 1.5	1 (≤ 50)	1200	Q62702-P3010	11
SRD 00231W	≤ 0.4	1250 ... 1580	≥ 0.8	≤ 0.9	1 (≤ 50)	2500	on request	22
SRD 00214H	< 1.0 ($V_R = 2\text{ V}$)	1250 ... 1580	≥ 0.75	≤ 1.5	1 (≤ 50)	1200	on request	14
SRD 00215H							on request	13
SRD 00214C							Q62702-P3059	14
SRD 00215C							Q62702-P3060	13
SRD 00217H	≤ 0.5	1250 ... 1580	≥ 0.8	≤ 1.5	1 (≤ 50)	1200	Q62702-P3052	12
SRD 00314A	≤ 0.5	1300	≥ 0.7	≤ 1.5 ($V_R = 2\text{ V}$)	1 (≤ 50)	1200	on request	14
SRD 00315A							Q62702-P3048	13
SRD 00314G							on request	14
SRD 00315G							on request	13

Ge-Lawinenfotodioden

für das 2. Durchlaßfenster (1300 nm)

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, Bauteile nach Bellcore Spezifikation qualifiziert.

Ge Avalanche photodiodes

for 1300 nm wavelength (2nd window)

$T_{op} = -40^{\circ}\text{C} \dots +85^{\circ}\text{C}$, devices are qualified acc. to Bellcore spec.

Type	Max. ratings Switching time ($V_R = 10\text{ V}$, $\lambda = 1310\text{ nm}$, $R_L = 50\ \Omega$) ns	Characteristics at $T_{sub} = 25^{\circ}\text{C}$					Bit rate Mbit/s	Multiplied dark current $I_{RM} (M = 10)$ nA	Bestellnummer Ordering code	Fig.
		λ_{smax} nm	V_{BR} $I_R = 100\ \mu\text{A}$ V	S_{λ} $\lambda = 1310\text{ nm}$ A/W	$C_{0.9 \times V_{BR}}$ $V_R = 0.9\ V_{BR}$ pF	I_R $V_R = 0.9 \times V_{BR}$ nA				
SRD 00512W	≤ 0.5	1500	28 ... 40	0.8 (≥ 0.7)	≤ 2	≤ 300	1200	≤ 20	Q62702-P3024	11
SRD 00514H SRD 00515H	≤ 0.5	1500	28 ... 40	0.8 (≥ 0.7)	≤ 2	≤ 300	1200	≤ 20	on request on request	14 13
SRD 00534H SRD 00535H	≤ 0.5	1500	28 ... 40	0.8 (≥ 0.7)	≤ 1.5 ($V_R = 25\text{ V}$)	≤ 300	2500	≤ 20	on request on request	23 19
SRD 00517H SRD 00517C	≤ 0.5	1500	28 ... 40	0.8 (≥ 0.7)	≤ 2	≤ 300	1200	≤ 20	on request on request	12

BIDI® Bidirektionale Module

BIDI® Bidirectional Modules

Type	Emitting wavelength nm	Receiving wavelength nm	Optical output power Φ_e [mW]	Cross talk dB	Features	Ordering code	Fig.
SBL 51214A SBM 51214A	1300	1300	> 0.4 > 1.2	< -22	SM-pigtail, DIN connector	Q62702-P3040 on request	20
SBL 51414A SBM 51414A SBH 51414A	1300	1550	> 0.4 > 1.2 > 2.4	< -47		Q62702-P3011 Q62702-P3049 on request	20
SBL 81314A SBM 81314A	1550	1300	> 0.4 > 1.2	< -47		Q62702-P3047 on request	20
SBL 51214G SBM 51214G	1300	1300	> 0.4 > 1.2	< -22	SM-pigtail, FC/PC	on request on request	20
SBL 51414G SBM 51414G SBH 51414G	1300	1550	> 0.4 > 1.2 > 2.4	< -47		on request on request on request	20
SBL 81314G SBM 81314G	1550	1300	> 0.4 > 1.2	< -47		on request on request	20