



Si-Fotodetektoren

Silicon Photodetectors


6.2 PIN Fotodioden

6.2 PIN photodiodes

Package	Type (*ab 4/95) (*as of 4/95)	Φ deg.	Radiant sensitive area mm ²	I_P ($V_R=5V, E_V=1000\text{ lx, standard light A}$) μA	I_R ($V_R=1V$) pA	$\lambda_{10\%}$ nm	t_r, t_f ($V_R=5V, R_L=1\text{ k}\Omega$) μs	Ordering code	Fig.
	BP 104 S	± 60	2.2×2.2	55 (≥ 40)	2 (≤ 30)	400 ... 1100	20 ns/50 Ω	Q62702-P1605	28
	BPW 34 S	± 60	2.65×2.65	80 (≥ 50)	2 (≤ 30)	400 ... 1100	20 ns/50 Ω	Q62702-P1602	27
	BPX 90 S	± 60	1.75×3.15	45 (≥ 32)	5 (≤ 180)	400 ... 1100	1.3	Q62702-P1669	2





PIN Fotodioden mit Filter

PIN photodiodes with filter

Package	Type (*ab 4/95) (*as of 4/95)	Φ deg.	Radiant sensitive area mm ²	I_P ($\lambda=950\text{ nm, }1\text{ mW/cm}^2, V_R=5V$) μA	I_R ($V_R=10V$) nA	λ_{Smax} nm	t_r, t_f ($V_R=5V, R_L=50\Omega$) ns	Ordering code	Fig.
	BP104 FS	± 60	2.2×2.2	34 (≥ 25)	2 (≤ 30)	950	20	Q62702-P1646	28
	BPW 34 FS	± 60	2.65×2.65	50 (≥ 30)	2 (≤ 30)	950	20	Q62702-P1604	27
	BPW 34 FAS	± 60	2.65×2.65	50 (≥ 40)	2 (≤ 30)	880	20	Q62702-P463	

6.3 Fototransistoren

6.3 Phototransistors

Package	Type (*ab 4/95) (*as of 4/95)	Φ deg.	Radiant sensitive area mm ²	I_{PCE} ($\lambda=950\text{ nm, }0.1\text{ mW/cm}^2, V_{CE}=5V$) mA	I_R ($V_R=10V$) nA	$\lambda_{10\%}$ nm	t_r, t_f ($I_C=1\text{ mA, }V_{CC}=5V, R_L=1\text{ k}\Omega$) μs	Ordering code	Fig.
	SFH 320	± 60	0.045	≥ 16	1 (≤ 200)	420 ... 1100	–	Q62702-P961	29
	SFH 320-2			16 ... 32			6	Q62702-P389	
	SFH 320-3			25 ... 50			7	Q62702-P390	
	SFH 320-4			≥ 40			8	Q62702-P1606	
	SFH 320 F (*SFH 320 FA)	± 60	0.045	≥ 16	1 (≤ 200)	900 (λ_{Smax})	–	Q62702-P988	29
	SFH 320 F-2 (*SFH 320 FA-2)			16 ... 32			6	Q62702-P392	
	SFH 320 F-3 (*SFH 320 FA-3)			25 ... 50			7	Q62702-P393	
	SFH 320 F-4 (*SFH 320 FA-4)			≥ 40			8	Q62702-P1607	
	SFH 325	± 60	0.045	≥ 16	35	420 ... 1100	–	Q62702-P1638	30
	SFH 325-2			16 ... 32			6	Q62702-P1609	
	SFH 325-3			25 ... 50			7	Q62702-P1610	
	SFH 325-4			≥ 40			8	Q62702-P1611	
	SFH 325 F (*SFH 325 FA)	± 60	0.045	≥ 16	35	900 (λ_{Smax})	–	Q62702-P1639	30
	SFH 325 F-2 (*SFH 325 FA-2)			16 ... 32			6	Q62702-P1613	
	SFH 325 F-3 (*SFH 325 FA-3)			25 ... 50			7	Q62702-P1614	
	SFH 325 F-4 (*SFH 325 FA-4)			≥ 40			8	Q62702-P1615	