

Si-Fotodetektoren

Silicon Photodetectors

6. Fotodetektoren für **NEU** Oberflächenmontage (SMT)

$T_A = 25^\circ\text{C}$


6. Photodetectors for Surface **NEW** Mount Technology (SMT)

$T_A = 25^\circ\text{C}$

Package	Type	φ deg.	Radiant sensitive area mm ²	I_P ($\lambda = 950\text{ nm}$, $E_g = 1\text{ mW/cm}^2$, $V_R = 5\text{ V}$) μA	I_R ($V_R = 10\text{ V}$) nA	$\lambda_{10\%}$ nm	t_r, t_f ($V_R = 20\text{ V}$, $R_L = 50\ \Omega$) ns	Ordering code	Fig.
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6.1 SMT-PIN Fotodioden

6.1 SMT-PIN photodiodes

	BP 104 S	± 60	2.2×2.2	$55 (\geq 40)$	$E_V = 1000\ \mu\text{m}$	$2 (\leq 30)$	400 ... 1100	10	Q62702-P1605	28
	BPW 34 S	± 60	2.65×2.65	$80 (\geq 50)$					$2 (\leq 30)$	400 ... 1100





SMT-PIN-Fotodioden mit Filter

SMT-PIN photodiodes with filter

	BP 104 FS	± 60	2.2×2.2	$34 (\geq 25)$	$880\ \text{nm}$	$2 (\leq 30)$	800 ... 1100	10	Q62702-P1646	28
	BPW 34 FS	± 60	2.65×2.65	$50 (\geq 40)$		$2 (\leq 40)$	800 ... 1100	10	Q62702-P1604	
	BPW 34 FAS	± 60	2.65×2.65	$50 (\geq 40)$		$2 (\leq 30)$	740 ... 1100	10	Q62702-P463	27

6.2 SMT-Fototransistoren

6.2 SMT-Phototransistors

Package	Type (* vorher) (* formerly)	φ deg.	Radiant sensitive area mm ²	I_{PCE} ($\lambda = 950\text{ nm}$, $E_g = 0.5\text{ mW/cm}^2$, $V_{CE} = 5\text{ V}$) mA	V_{CEO} V	$\lambda_{10\%}$ nm	t_r, t_f ($I_C = 1\text{ mA}$, $V_{CC} = 5\text{ V}$, $R_L = 1\text{ k}\Omega$) μs	Ordering code	Fig.
	SFH 320	± 60	0.045	≥ 16	35	420 ... 1100	–	Q62702-P961	
	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 FA (*SFH 320 F)	± 60	0.045	≥ 16	35	740 ... 1100	–	Q62702-P988	29
	SFH 320 FA-2 (*SFH 320 F-2)			16 ... 32			6	Q62702-P392	
	SFH 320 FA-3 (*SFH 320 F-3)			25 ... 50			7	Q62702-P393	
	SFH 320 FA-4 (*SFH 320 F-4)			≥ 40			8	Q62702-P1607	
	SFH 325	± 60	0.045	≥ 16	35	420 ... 1100	–	Q62702-P1638	
	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 FA (*SFH 325 F)	± 60	0.045	≥ 16	35	740 ... 1100	–	Q62702-P1639	30
	SFH 325 FA-2 (*SFH 325 F-2)			16 ... 32			6	Q62702-P1613	
	SFH 325 FA-3 (*SFH 325 F-3)			25 ... 50			7	Q62702-P1614	
	SFH 325 FA-4 (*SFH 325 F-4)			≥ 40			8	Q62702-P1615	