

SI-FOTODETEKTOREN

SILICON PHOTODETECTORS

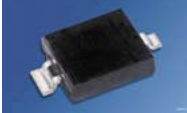
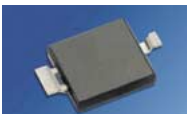


| Package | Type | φ deg. | Radiant sensitive area mm^2 | I_P ($\lambda = 950 \text{ nm}$, $E_0 = 1 \text{ mW/cm}^2$, $V_R = 5 \text{ V}$) μA | I_R ($V_R = 10 \text{ V}$) nA | $\lambda_{10\%}$ nm | t_{rt} ($V_R = 20 \text{ V}$, $R_L = 50 \Omega$) ns | Ordering code | Fig. |
|---------|------|-------------------|---|---|---|------------------------|---|---------------|------|
|---------|------|-------------------|---|---|---|------------------------|---|---------------|------|

2.2 SMT-Dioden

2.2 SMT-Diodes (cont'd)

2.2.2 SMT-PIN-Fotodioden mit Filter

2.2.2 SMT-PIN Photodiodes with Filter

| | | | | | | | | | | | |
|--|------------------|----------|--------------------|------------------|----------------------------|----------------------------|----------------------|--------------|--------------|--------------|--------------|
|  | BPW 104 FS | ± 60 | 2.2×2.2 | $34 (\geq 25)$ | 950 | $2 (\leq 30)$ | 800 ... 1100 | 10 | Q62702-P1646 | 13 | |
| | BPW 34 FS | ± 60 | 2.65×2.65 | $50 (\geq 40)$ | 950 | $2 (\leq 40)$ | 800 ... 1100 | 10 | Q62702-P1604 | 14 | |
|  | BPW 34 FAS | ± 60 | 2.65×2.65 | $50 (\geq 40)$ | $\lambda = 870 \text{ nm}$ | $2 (\leq 30)$ | 740 ... 1100 | 10 | Q62702-P463 | | |
| | BPW 34 FS E9087 | ± 60 | 2.65×2.65 | $50 (\geq 40)$ | | $\lambda = 950 \text{ nm}$ | $2 (\leq 30)$ | 780 ... 1100 | 20 | Q62702-P1826 | |
| Reverse Gullwing | BPW 34 FAS E9087 | | | | | | | | 730 ... 1100 | | Q62702-P1829 |
|  | SFH 2400 FA | ± 60 | 1×1 | $6.2 (\geq 3.6)$ | $\lambda = 870 \text{ nm}$ | $1 (\leq 5)$ | 750 ... 1100 | 5 | Q62702-P5035 | 16 | |
|  | SFH 2500 FA | ± 15 | 1×1 | $70 (> 50)$ | | $1 (\leq 5)$ | $V_R = 20 \text{ V}$ | 750 ... 1100 | 5 | Q62702-P1795 | 7 |
| | SFH 2505 FA | ± 15 | 1×1 | $70 (> 50)$ | | $1 (\leq 5)$ | | 750 ... 1100 | 5 | Q62702-P5030 | 8 |

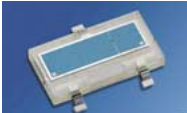
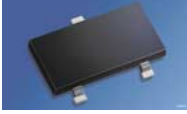
| Package | Type | φ deg. | Radiant sensitive area mm^2 | I_P ($E_V = 1000 \text{ lx}$, $V_R = 5 \text{ V}$) μA | I_R ($V_R = 10 \text{ V}$) nA | $\lambda_{10\%}$ nm | t_{rt} ($V_R = 10 \text{ V}$, $R_L = 50 \Omega$) ns | Ordering code | Fig. |
|---------|------|-------------------|---|--|---|------------------------|---|---------------|------|
|---------|------|-------------------|---|--|---|------------------------|---|---------------|------|

2.2 SMT-Dioden

2.2 SMT-Diodes (cont'd)

2.2.3 SMT- Differenzdiode

2.2.3 SMT Differential Photodiode

| | | | | | | | | | | |
|---|---|----------|-----------------------------|---|---|---|--------------|--------------------------|------------|----|
|  | KOM 2125 | ± 60 | 4 (diode A) 10 (diode B) | 40 (≥ 30) diode A 100 (≥ 75) diode B | $\lambda = 870 \text{ nm}$, $E_0 = 1 \text{ mW/cm}^2$ | 5 (≤ 30) diode A 10 (≤ 30) diode B | 400 ... 1100 | 13 diode A 20 diode B | Q62702-K47 | 17 |
| |  | | | KOM 2125 FA | | 26 (≥ 20) diode A, 70 (≥ 50) diode B | 750 ... 1100 | Q62702-P5313 | | |