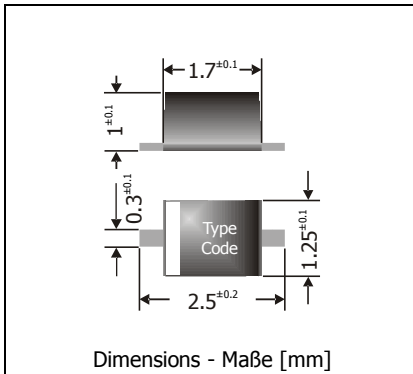


BAV19WS...BAV21WS

Surface Mount Small Signal Diodes Kleinsignal-Dioden für die Oberflächenmontage

Version 2011-09-27



| | |
|---|-------------|
| Power dissipation – Verlustleistung | 200 mW |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | 120...250 V |
| Plastic case – Kunststoffgehäuse | ~ SOD-323 |
| Weight approx. – Gewicht ca. | 0.005 g |
| Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert | |
| Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle | |



Maximum ratings (T_A = 25° C)

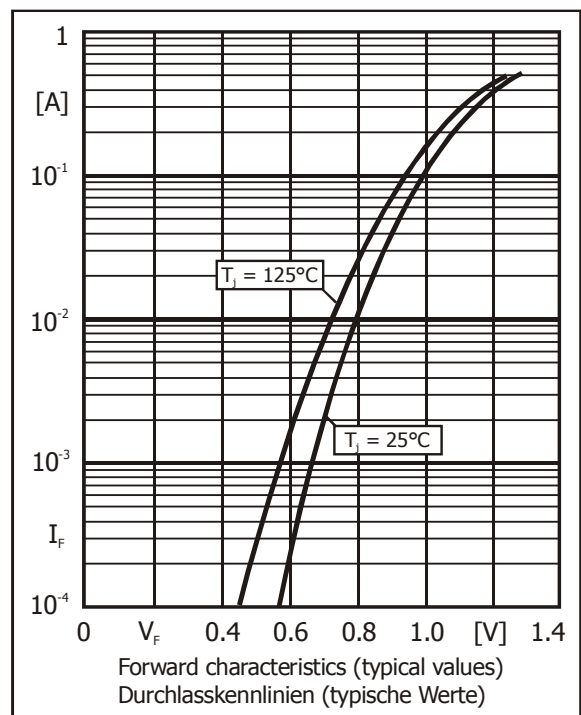
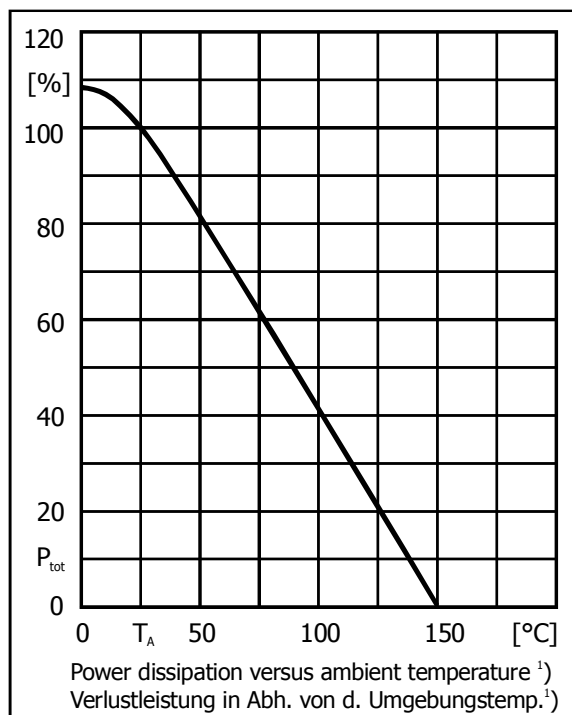
Grenzwerte (T_A = 25° C)

| | | BAV19WS, BAV20WS, BAV21WS | |
|---|---|--|-------------------------|
| Power dissipation – Verlustleistung | P _{tot} | | 200 mW ¹⁾ |
| Max. average forward current – Dauergrenzstrom (dc) | I _{FAV} | | 200 mA ¹⁾ |
| Repetitive peak forward current – Periodischer Spitzenstrom | I _{FRM} | | 625 mA ¹⁾ |
| Non repetitive peak forward surge current Stoßstrom-Grenzwert | t _p ≤ 1 s t _p ≤ 1 μs | I _{FSM} I _{FSM} | 0.5 A 2.5 A |
| Repetitive peak reverse voltage Periodische Spitzensperrspannung | BAV19WS BAV20WS BAV21WS | V _{RRM} V _{RRM} V _{RRM} | 120 V 200 V 250 V |
| Continuous reverse voltage Sperrspannung | BAV19WS BAV20WS BAV21WS | V _R V _R V _R | 100 V 150 V 200 V |
| Junction temperature – Sperrschichttemperatur | T _j | | +150° C |
| Storage temperature – Lagerungstemperatur | T _s | | - 55...+150° C |

¹ Mounted on P.C. board with 3 mm² copper pad at each terminal
Montage auf Leiterplatte mit 3 mm² Kupferbelag (Löt-pad) an jedem Anschluss

Characteristics ($T_j = 25^\circ\text{C}$)
Kennwerte ($T_j = 25^\circ\text{C}$)

| | | | |
|---|---|--|------------------------|
| Forward voltage ¹⁾ Durchlass-Spannung | $I_F = 100\text{ mA}$ $I_F = 200\text{ mA}$ | V_F V_F | < 1 V < 1.25 V |
| Leakage current ¹⁾ Sperrstrom | $T_j = 25^\circ\text{C}$ BAV19WS BAV20WS BAV21WS | $V_R = 100\text{ V}$ $V_R = 150\text{ V}$ $V_R = 200\text{ V}$ | I_R < 100 nA |
| Max. junction capacitance – Max. Sperrschichtkapazität $V_R = 0\text{ V}, f = 1\text{ MHz}$ | | C_T | < 5 pF |
| Reverse recovery time – Sperrverzug $I_F = 30\text{ mA}$ über/ through $I_R = 30\text{ mA}$ bis / to $I_R = 1\text{ mA}$ | | t_{rr} | < 50 ns |
| Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft | | R_{thA} | < 625 K/W ² |
| Marking – Stempelung | BAV19WS BAV20WS BAV21WS | | WO |



- 1 Tested with pulses $t_p = 300\ \mu\text{s}$, duty cycles $\leq 2\%$
gemessen mit Impulsen $t_p = 300\ \mu\text{s}$, Schaltverhältnis $\leq 2\%$
- 2 Mounted on P.C. board with 3 mm^2 copper pad at each terminal
Montage auf Leiterplatte mit 3 mm^2 Kupferbelag (Löt-pad) an jedem Anschluss