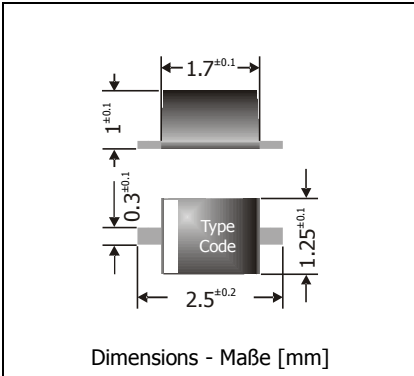


BAV19WS...BAV21WS
Surface Mount Small Signal Diodes
Kleinsignal-Dioden für die Oberflächenmontage

Version 2011-09-27



- Power dissipation – Verlustleistung 200 mW
- Repetitive peak reverse voltage 120...250 V
- Periodische Spitzensperrspannung
- 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)

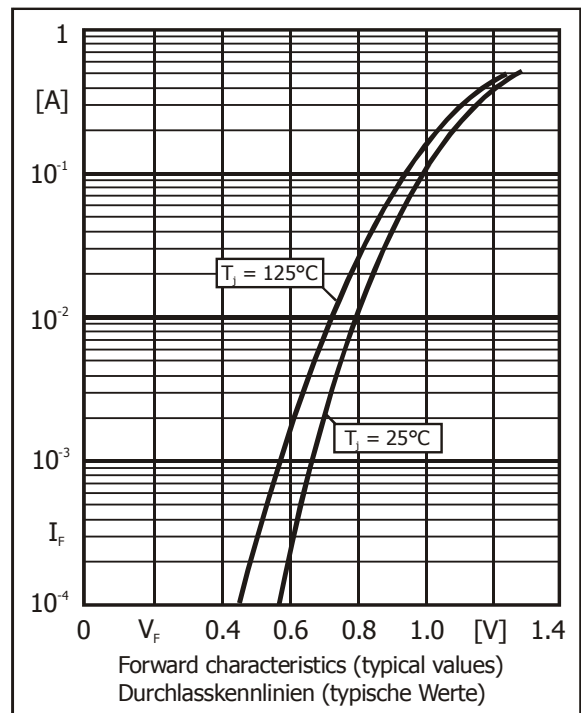
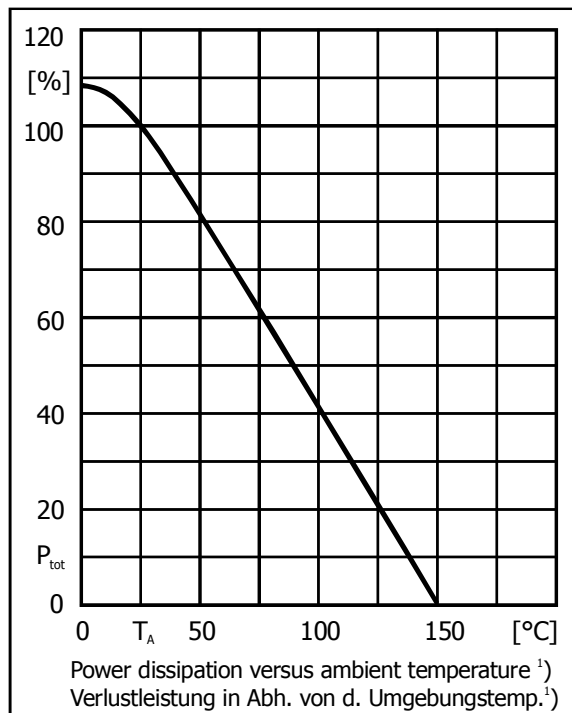
Grenzwerte (T_A = 25° C)

		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	t _p ≤ 1 s	I _{FSM}	0.5 A
Stoßstrom-Grenzwert	t _p ≤ 1 µs	I _{FSM}	2.5 A
Repetitive peak reverse voltage	BAV19WS	V _{RRM}	120 V
Periodische Spitzensperrspannung	BAV20WS	V _{RRM}	200 V
	BAV21WS	V _{RRM}	250 V
Continuous reverse voltage	BAV19WS	V _R	100 V
Sperrspannung	BAV20WS	V _R	150 V
	BAV21WS	V _R	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 mm² copper pad at each terminal
Montage auf Leiterplatte mit 3 mm² Kupferbelag (Löt-pad) an jedem Anschluss