SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 40 V
CURRENT: 0.2 A

Power dissipation – Verlustleistung 310 mW

Repetitive peak reverse voltage 40 V
Periodische Spitzensperrspannung

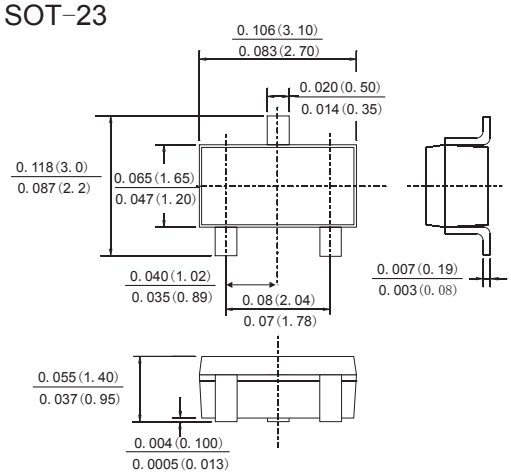
Plastic case SOT-23
Kunststoffgehäuse (TO-236)

Weight approx. – Gewicht ca. 0.01 g

Plastic material has UL classification 94V-0
Gehäusematerial UL94V-0 klassifiziert

Standard packaging taped and reeled
Standard Lieferform gegurtet auf Rolle

SOT-23

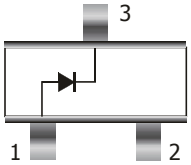
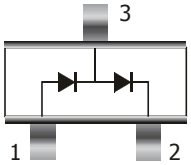
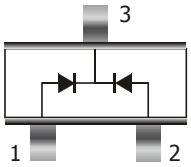
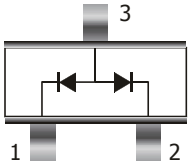


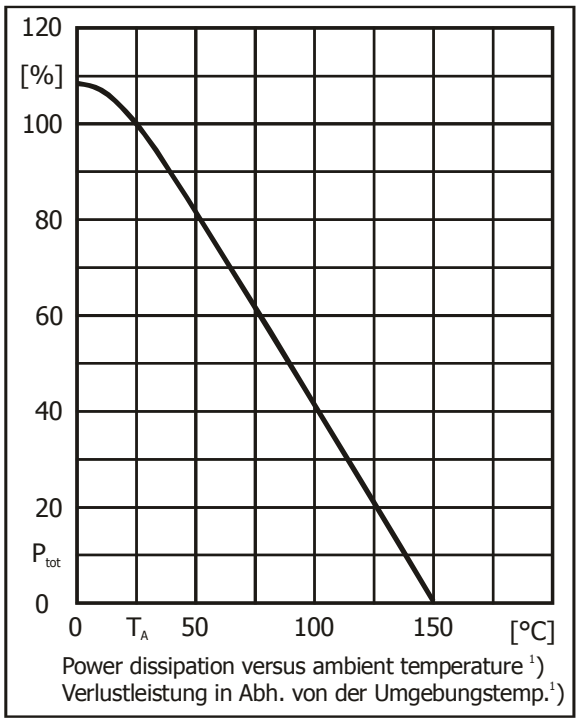
Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

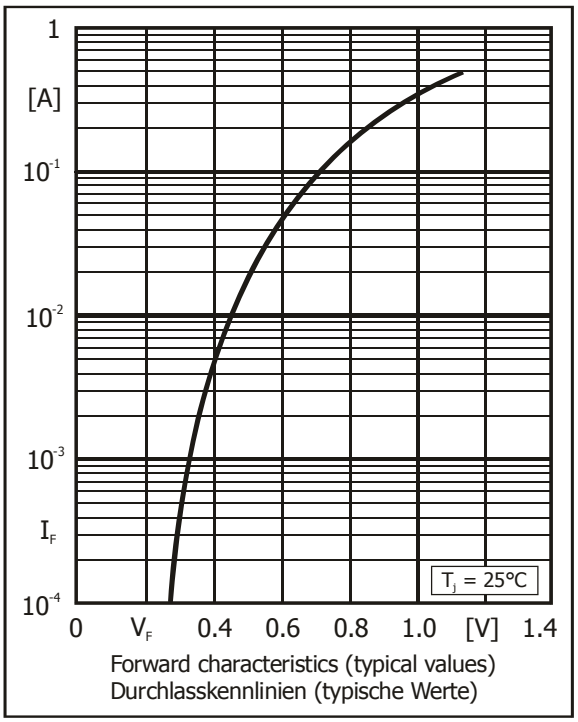
Ratings at 25 °C ambient temperature unless otherwise specified.

per diode / pro Diode		**BAS40-series**	
Power dissipation – Verlustleistung [1])		P_{tot}	310 mW [2])
Max. average forward current (dc) Dauergrenzstrom		I_{FAV}	200 mA [2])
Repetitive peak forward current Periodischer Spitzenstrom		I_{FRM}	300 mA [2])
Non repetitive peak forward surge current Stoßstrom-Grenzwert	$t_p \leq 1$ s	I_{FSM}	0.6 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung		V_{RRM}	40 V
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-55...+150°C -55...+150°C
Forward voltage [3]) Durchlass-Spannung [3])	I_F = 1 mA I_F = 10 mA I_F = 40 mA	V_F V_F V_F	< 380 mV < 500 mV < 1.00 V
Leakage current Sperrstrom	V_R = 30 V V_R = 40 V	I_R I_R	< 200 nA < 10 µA
Max. junction capacitance – Max. Sperrschichtkapazität V_R = 0 V, f = 1 MHz		C_T	5 pF
Reverse recovery time – Sperrverzug I_F = 10 mA über/through I_R = 10 mA bis/to I_R = 1 mA		t_{rr}	< 5 ns
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft		R_{thA}	< 400 K/W [2])

Pinning – Anschlussbelegung		Marking – Stempelung
	Single Diode Einzeldiode 1 = A 2 = n.c./frei 3 = C	BAS40 = 43
	Dual diode, series connection Doppeldiode, Reihenschaltung 1 = A1 2 = C2 3 = C1/A2	BAS40-04 = 44
	Dual diode, common cathode Doppeldiode, gemeinsame Katode 1 = A1 2 = A2 3 = C1/C2	BAS40-05 = 45
	Dual diode, common anode Doppeldiode, gemeinsame Anode 1 = C1 2 = C2 3 = A1/A2	BAS40-06 = 46



Power dissipation versus ambient temperature [1])
Verlustleistung in Abh. von der Umgebungstemp.[1])



Forward characteristics (typical values)
Durchlasskennlinien (typische Werte)