

SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE: 40 V
CURRENT: 0.2 A

Power dissipation – Verlustleistung 310 mW

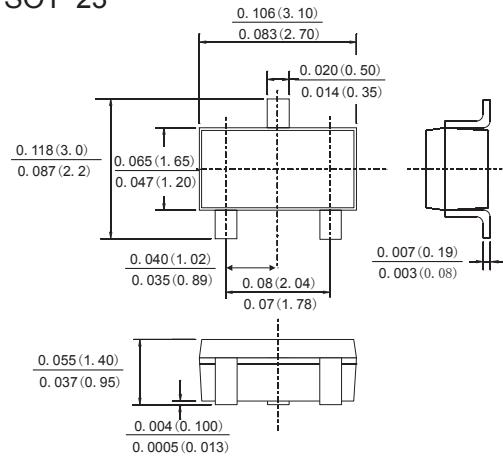
Repetitive peak reverse voltage 40 V
Periodische Spitzensperrspannung

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

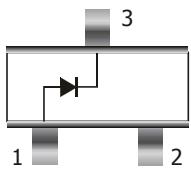
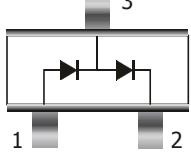
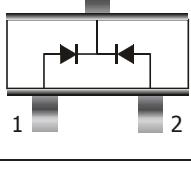
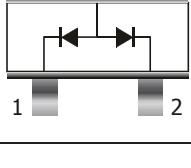
SOT-23


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 ≤ 1 s	I _{FSM}
		0.6 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	V _{RRM}	40 V
Junction temperature – Sperrschihttemperatur 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. Sperrschiichtkapazität 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 Sperrschiicht – 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

