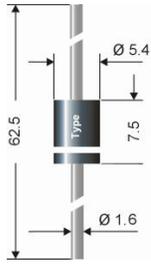


SBH 1020TL ... SBH 1045TL



Axial lead diode

Type	Repetitive peak reverse voltage V_{RRM} V	Surge peak reverse voltage V_{RSM} V	Max. reverse recovery time $I_F = -A$ $I_R = -A$ $I_{RR} = -A$ t_{rr} ns	Max. forward voltage $V_F^{(2)}$
SBH 1020TL	20	20	-	0,53
SBH 1030TL	30	30	-	0,53
SBH 1040TL	40	40	-	0,53
SBH 1045TL	45	45	-	0,53

High temperature schottky barrier diodes

SBH 1020TL...SBH 1045TL

Forward Current: 10 A

Reverse Voltage: 20 to 45 V

Preliminary Data

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case: 5,4 x 7,5 [mm]
- Weight approx.: 1,7 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 1250 pieces per ammo or per reel

- 1) Valid, if leads are kept at T_A at a distance of 10 mm from case
- 2) $I_F = 5 A$, $T_j = 25 ^\circ C$
- 3) $T_A = 25 ^\circ C$
- 4) Thermal resistance from junction to lead/terminal at a distance 0 mm from case

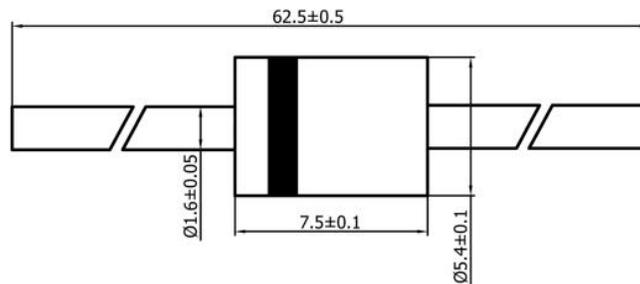
Absolute Maximum Ratings $T_A = 25 ^\circ C$, unless otherwise specified

Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 50 ^\circ C$ ¹⁾	10	A
I_{FRM}	Repetitive peak forward current $f > 15 Hz$ ¹⁾	30	A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	250	A
i^2t	Rating for fusing, $t < 10 ms$ ³⁾	312	A ² s
R_{thA}	Max. thermal resistance junction to ambient ¹⁾		K/W
R_{thL}	Max. thermal resistance junction to terminals ⁴⁾	2,5	K/W
T_j	Operating junction temperature	- 50 ... + 200	°C
T_s	Storage temperature	- 50 ... + 175	°C

Characteristics $T_A = 25 ^\circ C$, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_j = 25 ^\circ C$; $V_R = V_{RRM}$	40	μA
	$T_j = 100 ^\circ C$; $V_R = V_{RRM}$	400	μA
C_j	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
Q_{rr}	Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$)	-	μC
E_{RSM}	Non repetitive peak reverse avalanche energy ($I_R = mA$; $T_j = ^\circ C$; inductive load switched off)	-	mJ

Dimensions in mm



case: 5,4 x 7,5 [mm]

