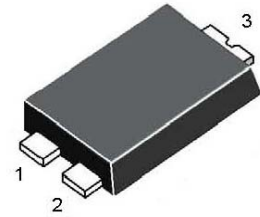
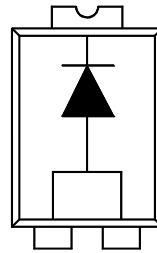


SDB08100HB-AH

Surface Mount Schottky Barrier Rectifier

Features

- Low forward voltage drop
- Excellent high temperature stability
- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF),
RoHS compliant



1.Anode 2.Anode 3.Cathode
TO-277 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

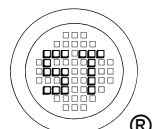
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	8	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	150	A
Typical Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	88	$^\circ\text{C/W}$
Typical Thermal Resistance, Junction to Ambient ²⁾	$R_{\theta JA}$	18	$^\circ\text{C/W}$
Junction Temperature Range	T_j	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

²⁾ Aluminum 2inch x 2inch substrate PCB.

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 8 \text{ A}$ at $I_F = 8 \text{ A}$, $T_J = 125^\circ\text{C}$	V_F	0.7 0.66	V
Reverse Current at $V_R = 100 \text{ V}$ at $V_R = 100 \text{ V}$, $T_J = 125^\circ\text{C}$	I_R	0.1 20	mA



Electrical characteristic curves

Fig 1. Reverse Characteristic Curve

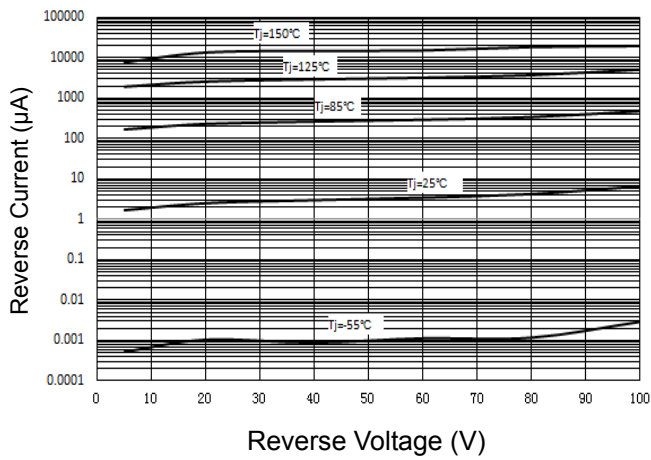


Fig 2. Forward Characteristic Curve

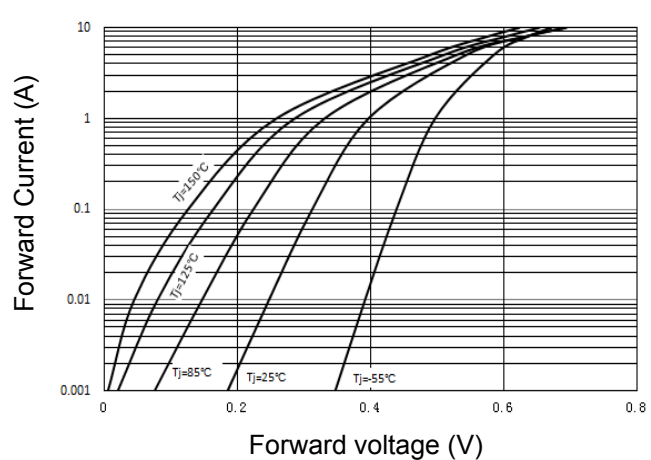
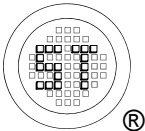
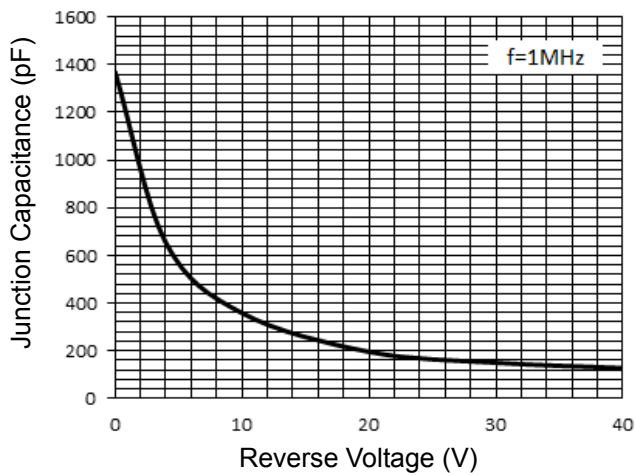


Fig 3. Junction Capacitance

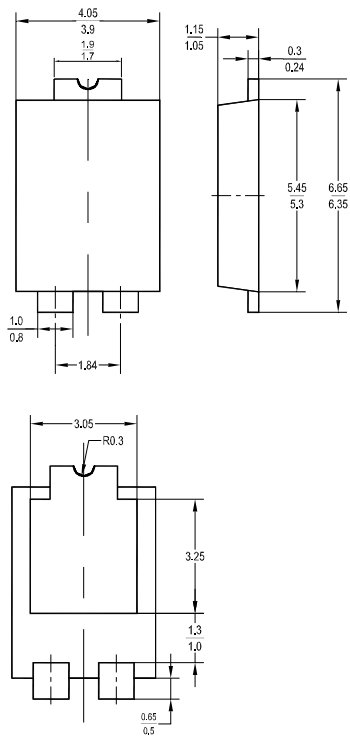


SDB08100HB-AH

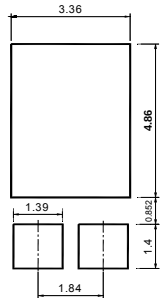
PACKAGE OUTLINE

Plastic surface mounted package (Units: mm)

TO-277



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-277	12	8 ± 0.1	0.315 ± 0.004	330	13	5,000

Marking information

" . " = HAF (Halogen and Antimony Free)
"SDB08100HB " = Part No.
" YYWW " = Date Code Marking
" Y " = Year (ex: 19 = 2019)
" W " = Week (ex: 09 = the 9th week of the year)
Font type: Arial

