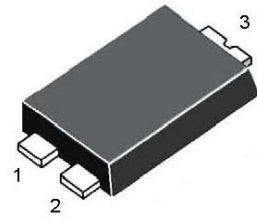
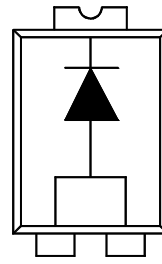


SDB0860HB-AH

Surface Mount Schottky Barrier Rectifier

Features

- AEC-Q101 Qualified
- Low power loss, High efficiency
- High surge capability
- Halogen and Antimony Free(HAF),
RoHS compliant



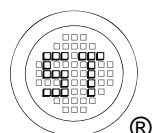
1.Anode 2.Anode 3.Cathode
TO-277 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Reverse Voltage	V_R	60	V
Average Rectified Forward Current	$I_{F(AV)}$	8	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	250	A
Thermal Resistance, Junction to Case	$R_{\theta Jc}$	2.5	$^\circ\text{C/W}$
Junction Temperature Range	T_J	- 50 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 50 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ A}$ at $I_F = 2 \text{ A}$ at $I_F = 5 \text{ A}$ at $I_F = 8 \text{ A}$	V_F	0.35 0.42 0.46 0.53	V
Reverse Current at $V_R = 60 \text{ V}$	I_R	150	μA



Electrical characteristic curves

Fig 1. Forward Current Derating Curve

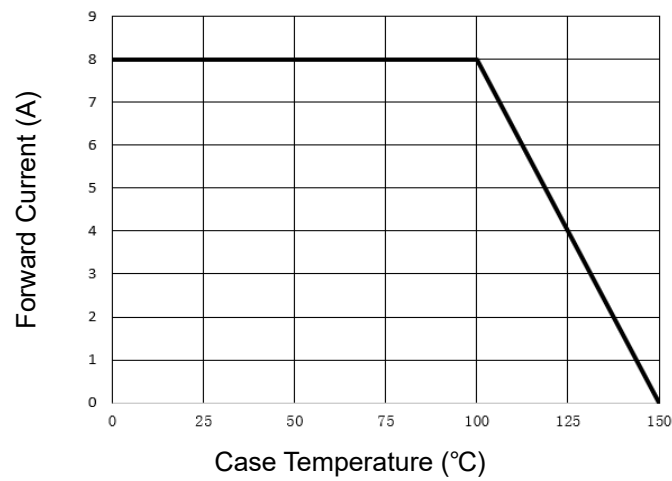


Fig 2. Forward Characteristic Curve

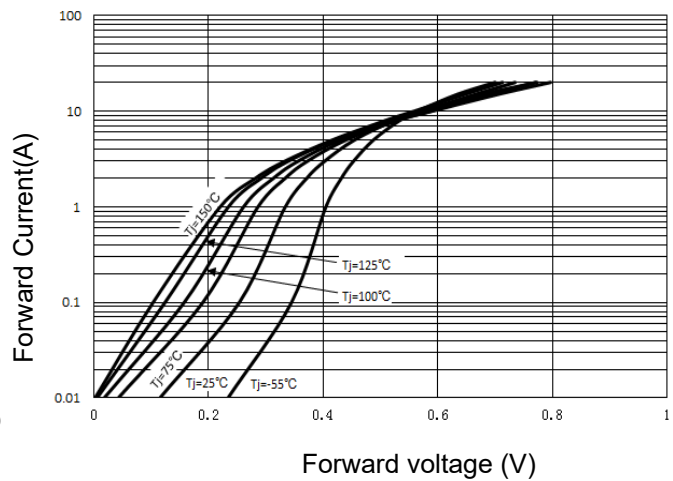


Fig 3. Reverse Characteristic Curve

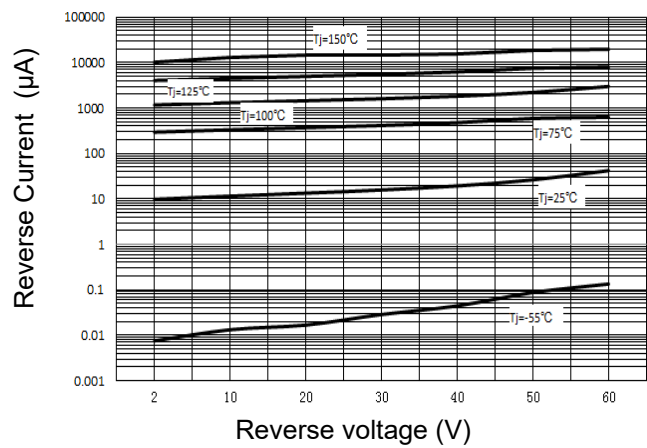
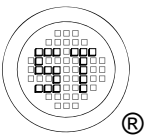
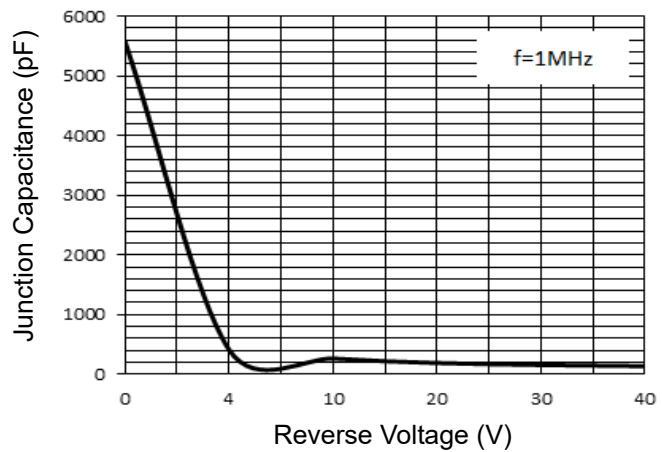


Fig 4. Junction Capacitance

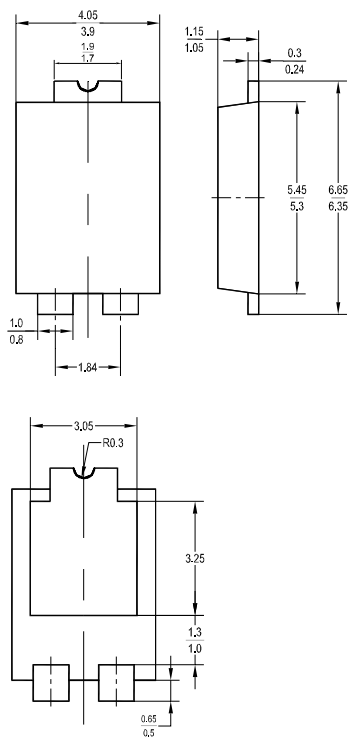


SDB0860HB-AH

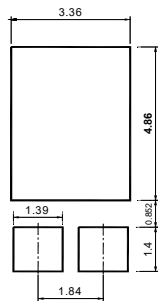
PACKAGE OUTLINE

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)
" SDB0860HB " = Part No.
" YYWW " = Date Code Marking
" Y " = Year (ex: 19 = 2019)
" W " = Week (ex: 09 = the 9th week of the year)
Font type: Arial

