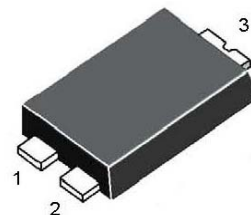
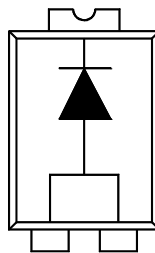


SHB20U100S

Surface Mount Schottky Barrier Rectifier

Features

- Low forward voltage
- High efficiency operation



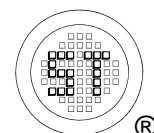
1.Anode 2.Anode 3.Cathode
TO-277 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	100	V
Average Rectified Forward Current	$I_{F(AV)}$	20	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	250	A
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 $I_F = 3 \text{ A}$ at $I_F = 10 \text{ A}$ at $I_F = 12 \text{ A}$ at $I_F = 20 \text{ A}$	V_F	0.49 0.6 0.67 0.75	V
Reverse Current at $V_R = 100 \text{ V}$	I_R	60	μA



SHB20U100S

Electrical characteristic curves

Fig 1. Reverse Characteristic Curve

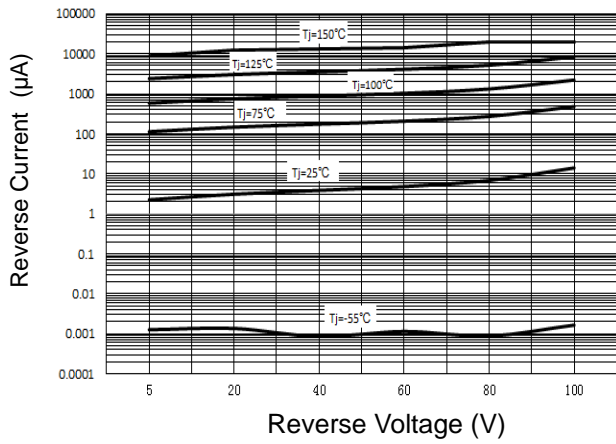


Fig 2. Forward Characteristic Curve

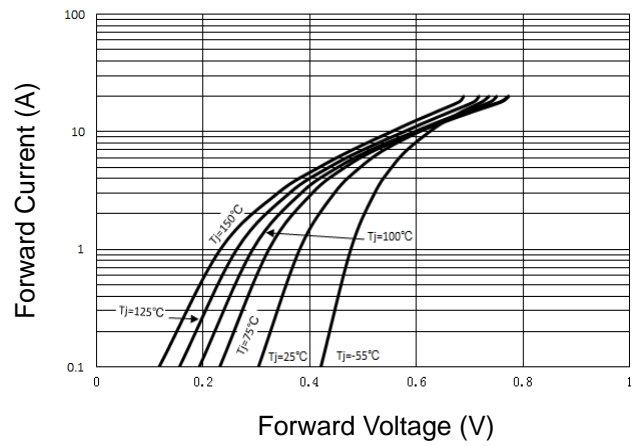
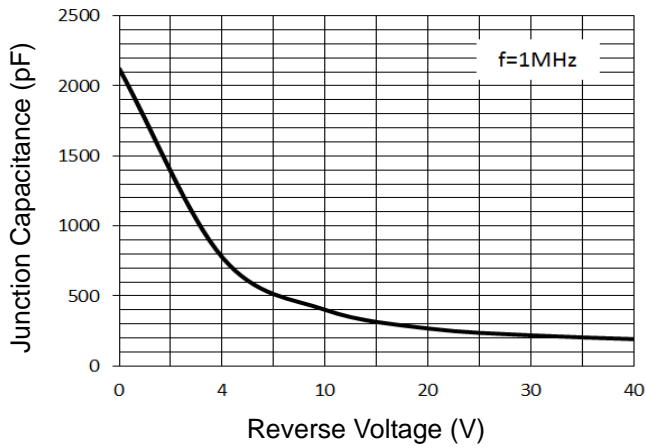


Fig 3. Junction Capacitance

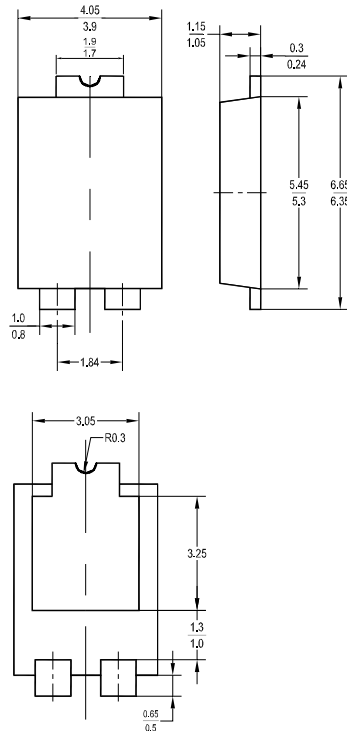


SHB20U100S

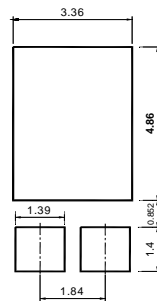
PACKAGE OUTLINE

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

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

