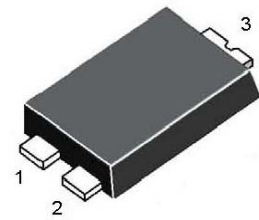
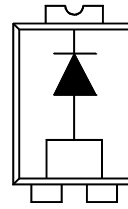


SBH15U45S

Surface Mount Schottky Barrier Rectifier

Features

- Low power loss, high efficiency
- High surge capability



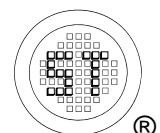
1.Anode 2.Anode 3.Cathode
TO-277 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Reverse Voltage	V_R	45	V
Average Rectified Forward Current	$I_{F(AV)}$	15	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	260	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 $I_F = 2 \text{ A}$ at $I_F = 5 \text{ A}$ at $I_F = 10 \text{ A}$ at $I_F = 15 \text{ A}$	V_F	0.37 0.41 0.45 0.51	V
Reverse Current at $V_R = 45 \text{ V}$	I_R	140	μA
Total Capacitance at $V_R = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_J	600	pF



Electrical Characteristic Curves

Fig 1. Average Rectified Current Derating Curve

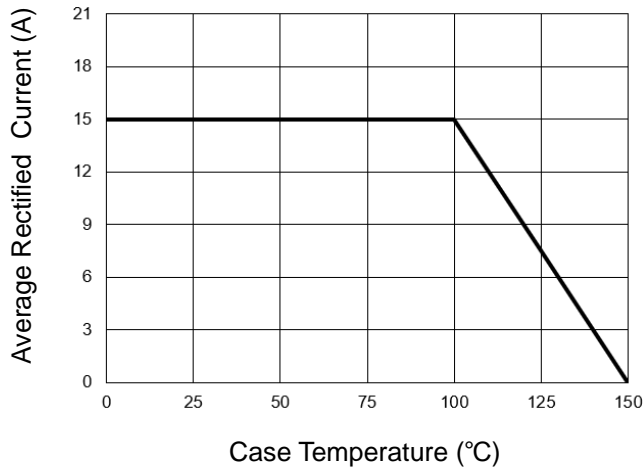


Fig 2. Forward Characteristic Curve

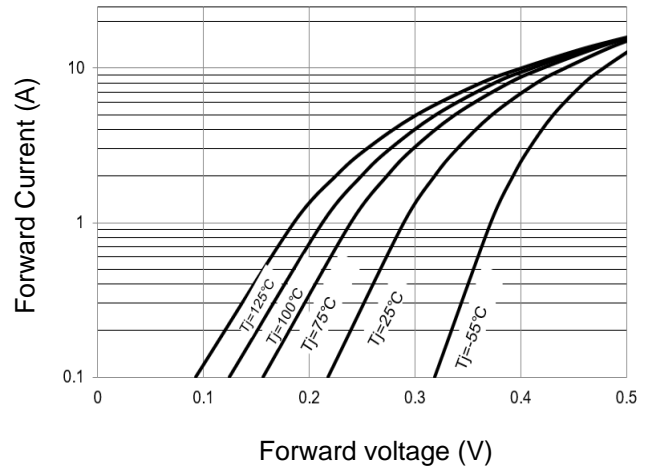


Fig 3. Reverse Characteristic Curve

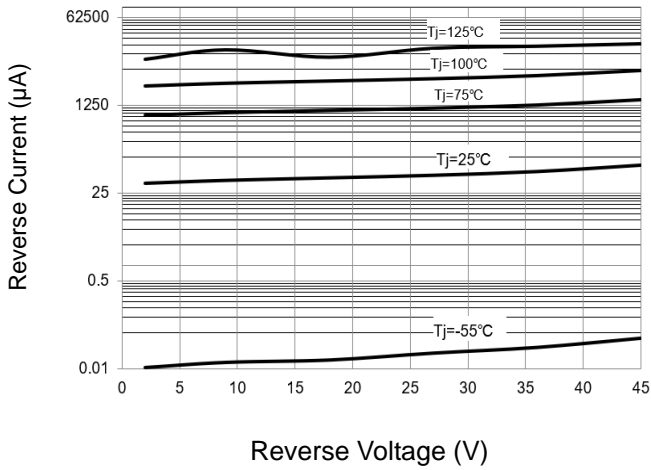
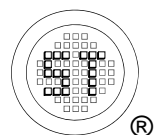
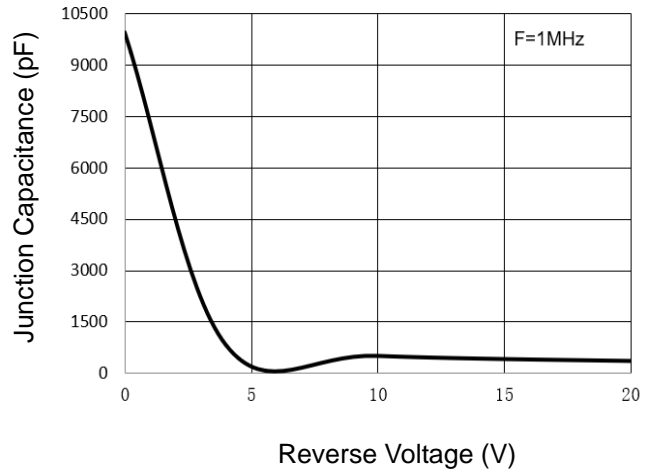


Fig 4. Junction Capacitance

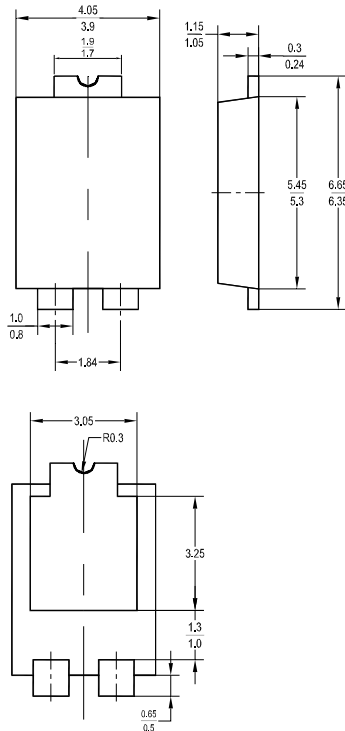


SBH15U45S

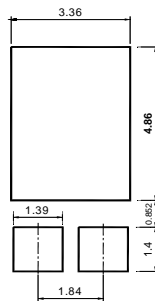
PACKAGE OUTLINE

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

" SBH15U45S " = Part No.

" YYWW " = Date Code Marking

" Y " = Year (ex: 19 = 2019)

" W " = Week (ex: 09 = the 9th week of the year)

Font type: Arial

