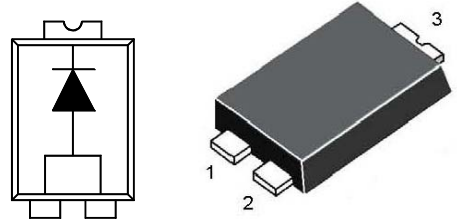


SDB08150HB

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 150 V

Forward Current - 8 A



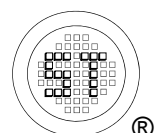
1.Anode 2.Anode 3.Cathode
TO-277 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Average Forward Rectified Current	$I_{F(AV)}$	8	A
Non-Repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	200	A
Typical Thermal Resistance Per Diode	$R_{\theta JC}$	2.4	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 500 \mu\text{A}$	V_{BR}	150	-	V
Forward Voltage at $I_F = 8 \text{ A}$	V_F	-	0.85	V
Reverse Current at $V_R = 150 \text{ V}$	I_R	-	5	μA



SDB08150HB

Electrical characteristic curves

Fig 1. Reverse Characteristics

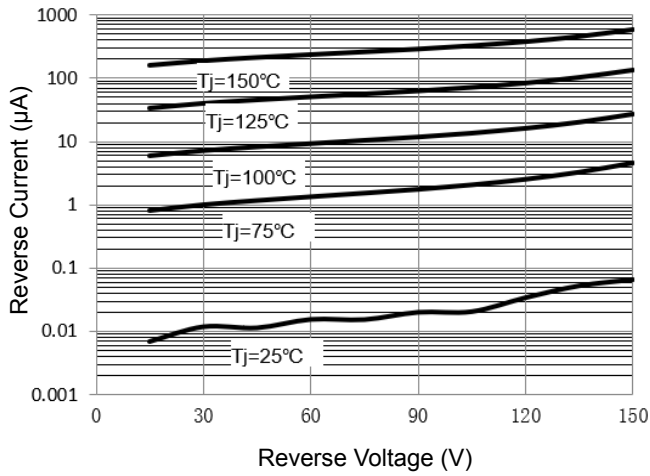


Fig 2. Forward Characteristics

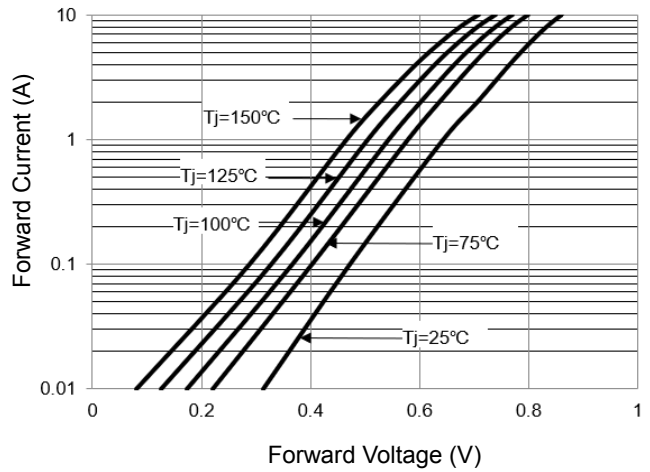


Fig 3. Junction Capacitance

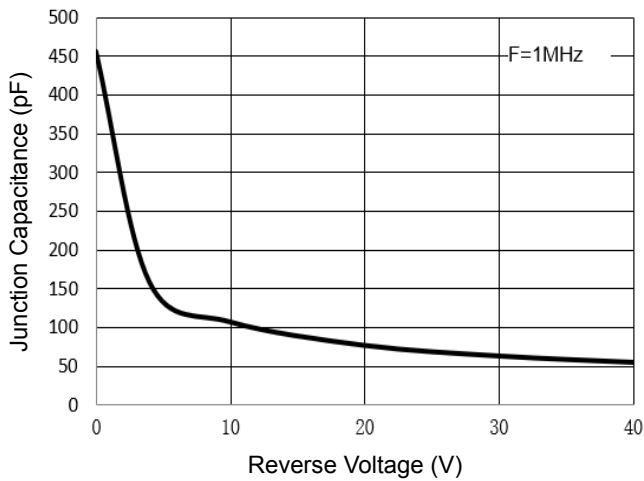


Fig 4. Thermal Resistance

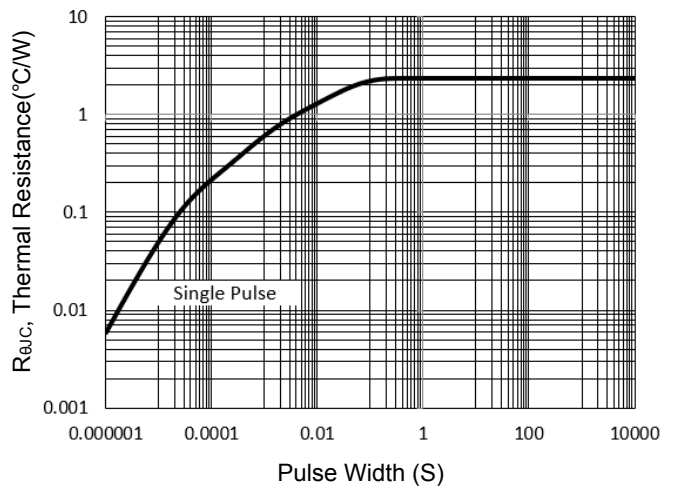
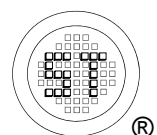
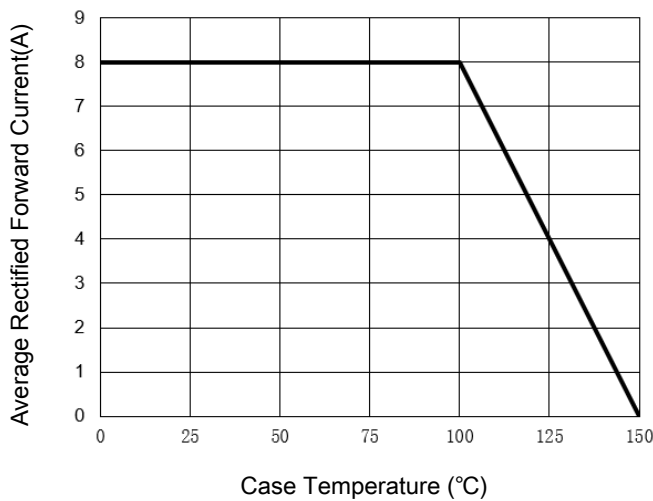


Fig 5. Forward Current Derating Curve

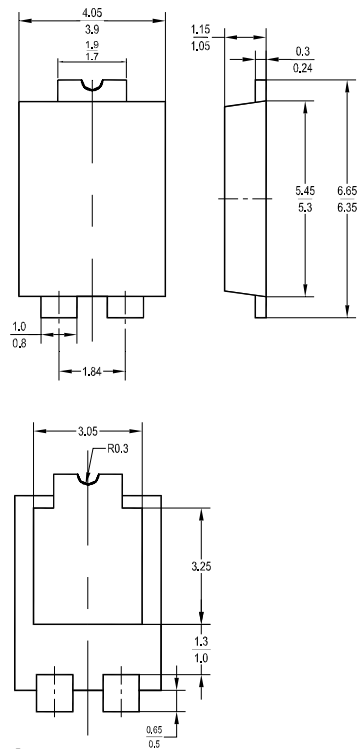


SDB08150HB

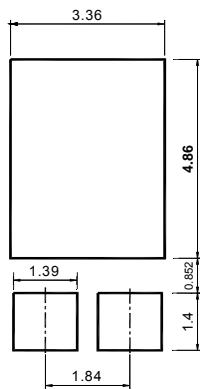
PACKAGE OUTLINE

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

