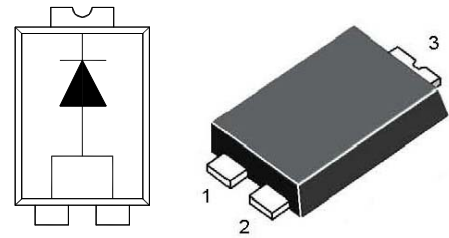


SDB20100

Surface Mount Schottky Barrier Rectifier

Features

- Low forward voltage drop
- Excellent high temperature stability



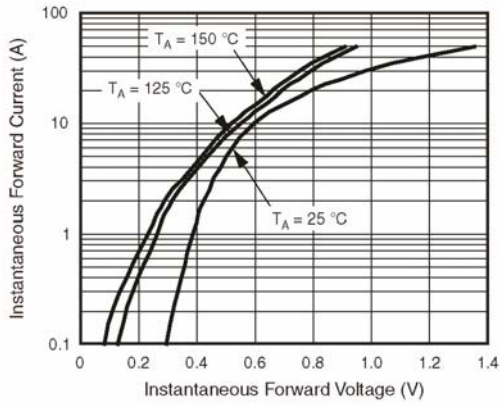
TO-277 Plastic Package

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

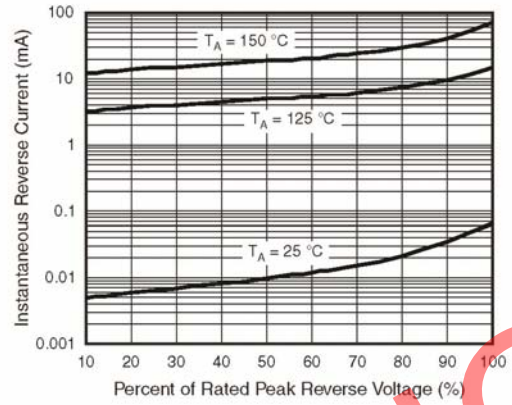
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	20	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	250	A
Operating Junction and Storage Temperature Range	T_J, T_{stg}	- 40 to + 150	$^\circ\text{C}$

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

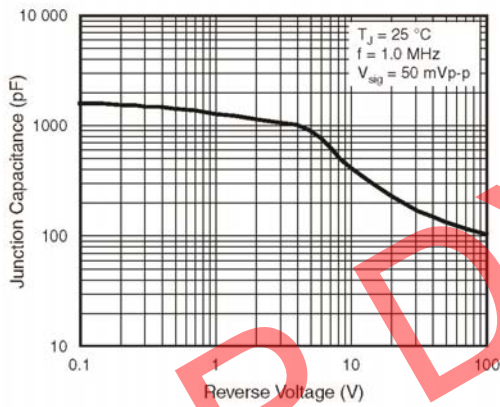
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10 \text{ mA}$	$V_{(BR)R}$	105	-	-	V
Forward Voltage at $I_F = 5 \text{ A}, T_a = 25^\circ\text{C}$ at $I_F = 10 \text{ A}, T_a = 25^\circ\text{C}$ at $I_F = 20 \text{ A}, T_a = 25^\circ\text{C}$ at $I_F = 5 \text{ A}, T_a = 125^\circ\text{C}$ at $I_F = 10 \text{ A}, T_a = 125^\circ\text{C}$ at $I_F = 20 \text{ A}, T_a = 125^\circ\text{C}$	V_F	- - - - - -	0.51 0.6 - 0.45 0.53 -	- - 0.9 - - 0.76	V
Reverse Current at $V_R = 70 \text{ V}, T_a = 25^\circ\text{C}$ at $V_R = 70 \text{ V}, T_a = 125^\circ\text{C}$ at $V_R = 100 \text{ V}, T_a = 25^\circ\text{C}$ at $V_R = 100 \text{ V}, T_a = 125^\circ\text{C}$	I_R	- - - -	17 7 - -	- - 500 30	μA mA μA mA



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



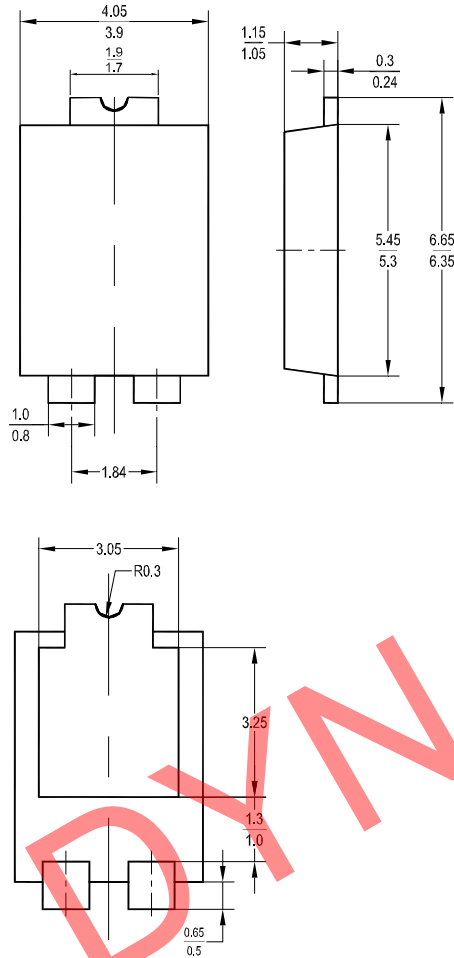
Typical Junction Capacitance

TOP DYNAMIC

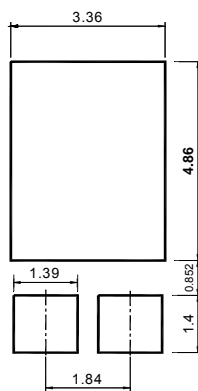


SDB20100

TO-277 PACKAGE OUTLINE



RECOMMENDED SOLDERING FOOTPRINT



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-277	12	4 ± 0.1	0.157 ± 0.004	330	13	5,000

