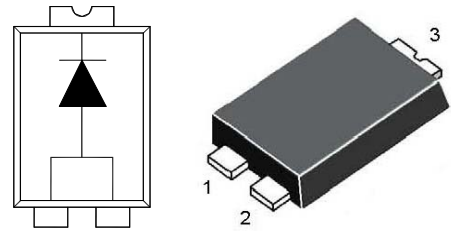


SDB08100-AH

Surface Mount Schottky Barrier Rectifier

Features

- Low forward voltage drop
- Excellent high temperature stability
- AEC-Q101 is Available
- Halogen and Antimony Free(HAF), RoHS compliant



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

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

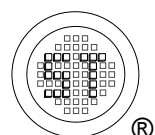
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	$I_{F(AV)}$	8	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	150	A
Typical Thermal Resistance , Junction to Ambient ¹⁾	$R_{\theta JA}$	88	$^\circ\text{C/W}$
Typical Thermal Resistance , Junction to Ambient ²⁾	$R_{\theta JA}$	18	$^\circ\text{C/W}$
Junction Temperature	T_j	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

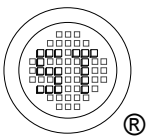
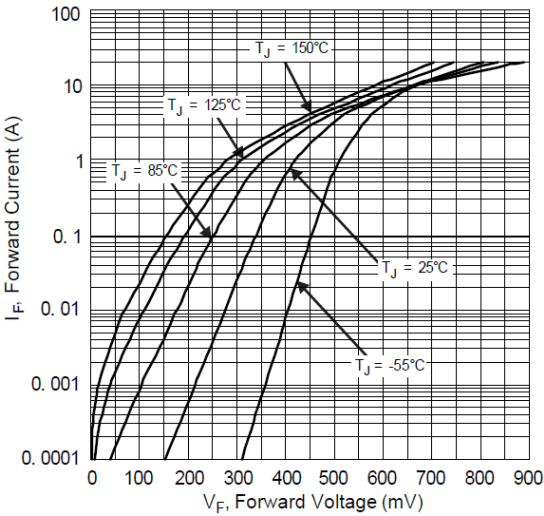
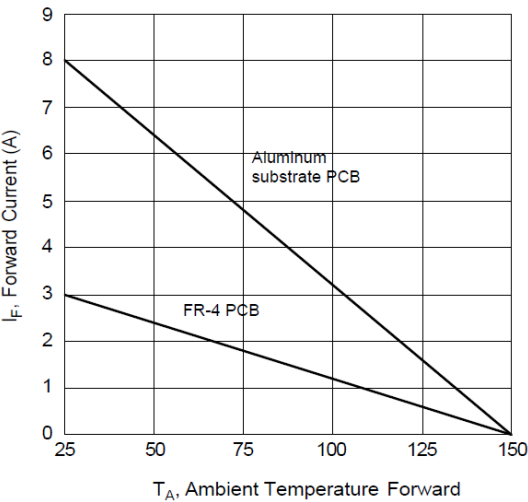
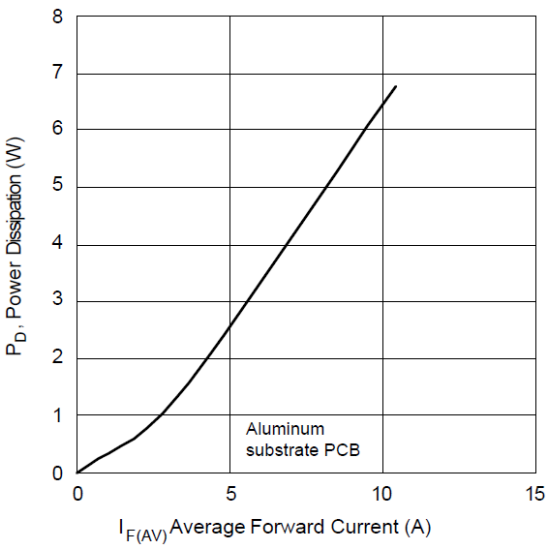
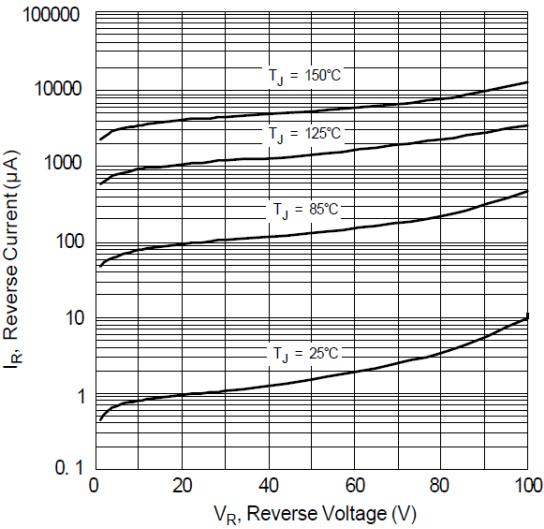
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 8 \text{ A}$ at $I_F = 8 \text{ A}$, $T_J = 125^\circ\text{C}$	V_F	0.7 0.66	V
Reverse Current at $V_R = 100 \text{ V}$ at $V_R = 100 \text{ V}$, $T_J = 125^\circ\text{C}$	I_R	0.1 20	mA

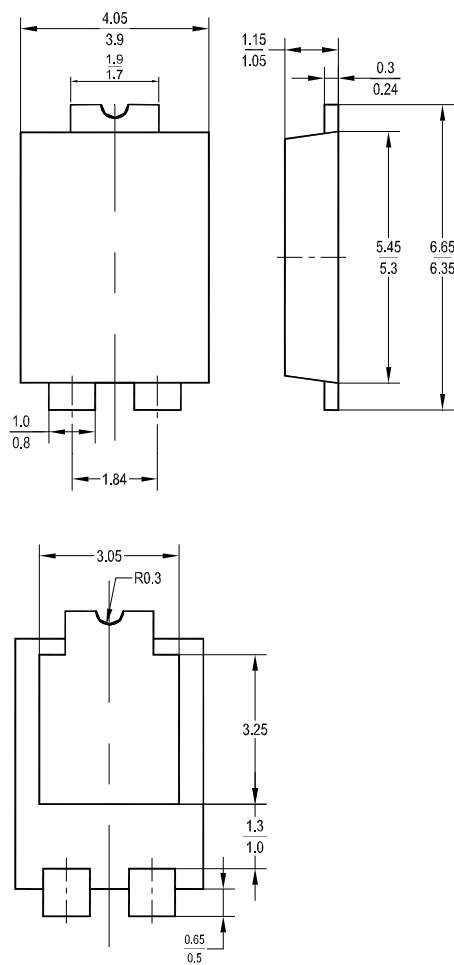
¹⁾ FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

²⁾ Aluminum 2inch x 2inch substrate PCB.

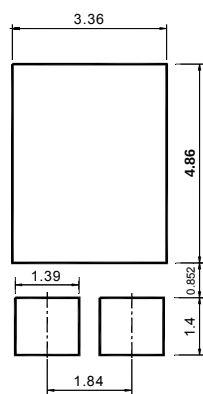




TO-277 PACKAGE OUTLINE



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

