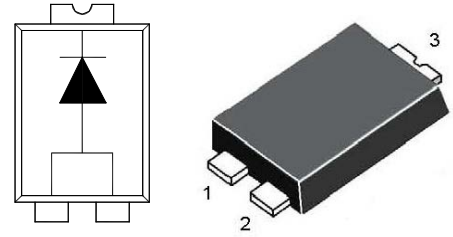


SDB0560,SDB05100-HAF

Surface Mount Schottky Barrier Rectifier

Features

- Ultra low forward voltage drop
- High efficiency operation
- Halogen and Antimony Free(HAF),RoHS compliant



TO-277 Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	60 100	V
Reverse Voltage	V_R	60 100	V
Average Rectified Forward Current	$I_{F(AV)}$	5	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	165	A
Thermal Resistance, Junction to Case	$R_{\theta JC}$	2	$^\circ\text{C/W}$
Junction Temperature Range	T_J	- 50 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 50 to + 150	$^\circ\text{C}$

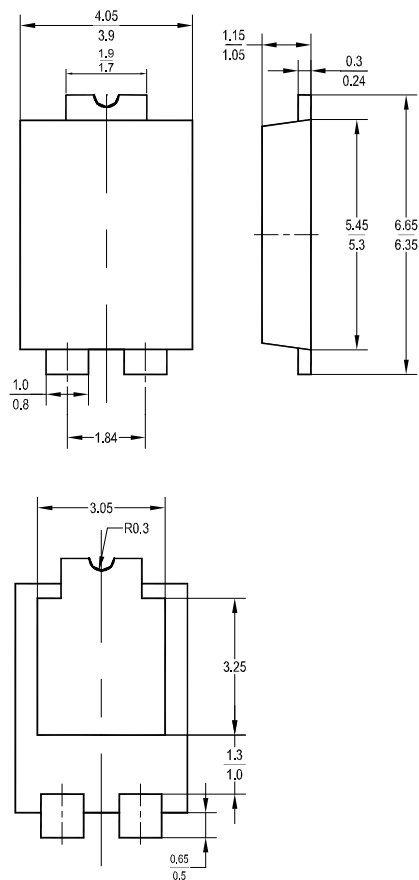
Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 2 \text{ A}$	V_F	-	0.55	V
		-	0.7	
at $I_F = 2 \text{ A}, T_j = 125^\circ\text{C}$		-	0.45	
		-	0.6	
at $I_F = 5 \text{ A}$		-	0.69	
		-	0.88	
at $I_F = 5 \text{ A}, T_j = 125^\circ\text{C}$		0.6 0.7	0.7 0.8	
Reverse Current at $V_R = 60 \text{ V}$	I_R	-	150	μA
at $V_R = 100 \text{ V}$		-	15	μA
at $V_R = 60 \text{ V}, T_j = 125^\circ\text{C}$		10	20	mA
at $V_R = 100 \text{ V}, T_j = 125^\circ\text{C}$		0.23	0.5	mA
Total Capacitance at $V_R = 4 \text{ V}, f = 1 \text{ MHz}$	C_J	200	-	pF

TOP DYNAMIC

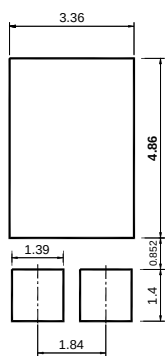
SDB0560,SDB05100-HAF

TO-277 PACKAGE OUTLINE



Dimensions in mm

RECOMMENDED SOLDERING FOOTPRINT



TO-277

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

TOP DYNAMIC

