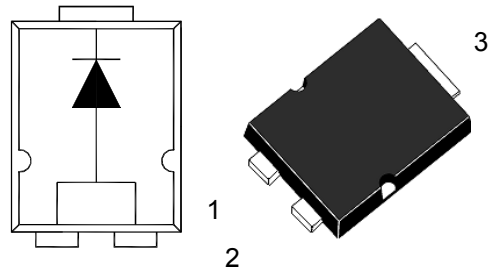


# SDB2060A

## Surface Mount Schottky Barrier Rectifier

### Features

- Low forward voltage drop
- Excellent high temperature stability



TO-277A Plastic Package

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Reverse Voltage	$V_R$	60	V
DC Blocking Voltage	$V_{DC}$	42	V
Average Rectified Forward Current <sup>1)</sup>	$I_{F(AV)}$	20	A
Non-repetitive Peak Forward Surge Current (t = 8.3 ms)	$I_{FSM}$	300	A
Typical Thermal Resistance Per Diode	$R_{\theta Jc}$	8	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_J$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

<sup>1)</sup> Mounted on 30 mm x 30 mm 4 oz. pad PCB

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 500 \mu\text{A}$	$V_{(BR)R}$	60	-	-	V
Forward Voltage <sup>1)</sup> at $I_F = 10 \text{ A}$ at $I_F = 20 \text{ A}$ at $I_F = 10 \text{ A}$ , $T_J = 125^\circ\text{C}$	$V_F$	-	0.4 0.46 0.35	- 0.5 0.4	V
Reverse Current at $V_R = 60 \text{ V}$ at $V_R = 60 \text{ V}$ , $T_J = 125^\circ\text{C}$	$I_R$	-	0.1 -	0.3 70	mA

<sup>1)</sup> Pulse Test with Pulse Width= 300  $\mu\text{s}$ , 1% Duty Cycle

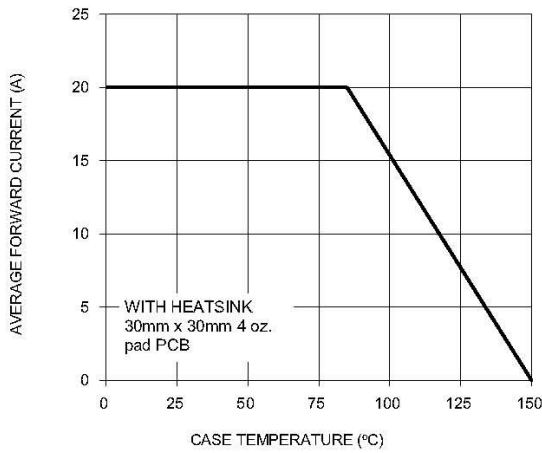
**TOP DYNAMIC**



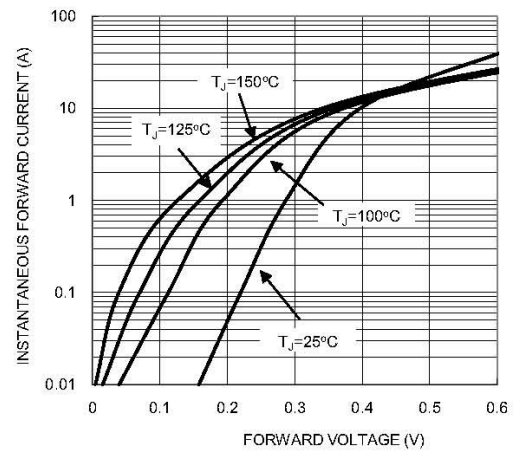
ISO14001 : 2004 Certificate No. 121505007  
ISO 9001 : 2008 Certificate No. 50114012  
OHSAS 18001 : 2007 Certificate No. 05131506008  
IECQ QC 080000 Certificate No. E2011000714012

Dated:27/06/2014 Rev: 04

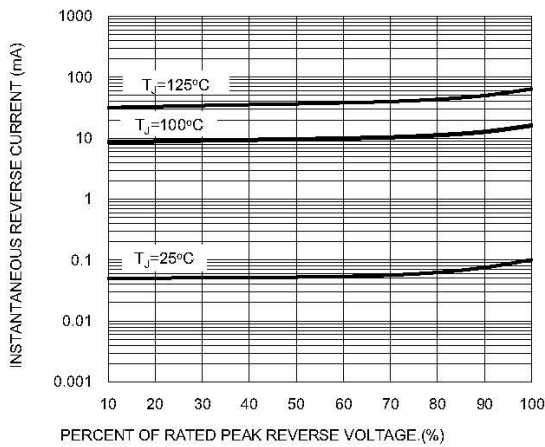
**FIG.1 FORWARD CURRENT DERATING CURVE**



**FIG. 2 TYPICAL FORWARD CHARACTERISTICS**

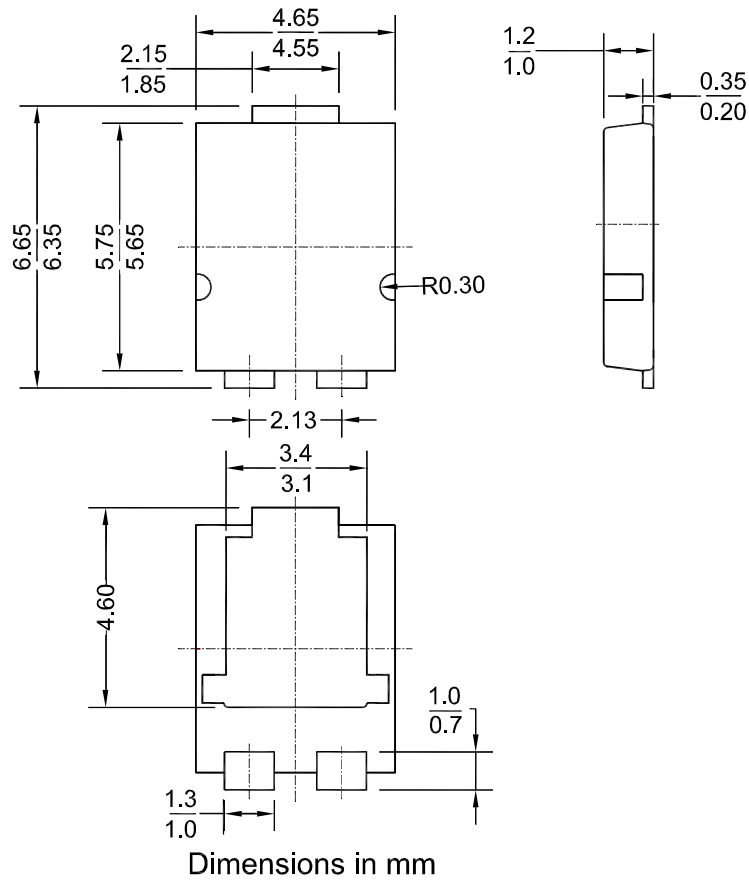


**FIG. 3 TYPICAL REVERSE CHARACTERISTICS**

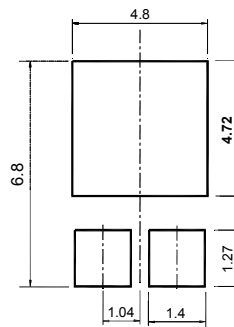


# SDB2060A

## TO-277A PACKAGE OUTLINE



## Recommended Soldering Footprint



## Packing information

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

**TOP DYNAMIC**



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