

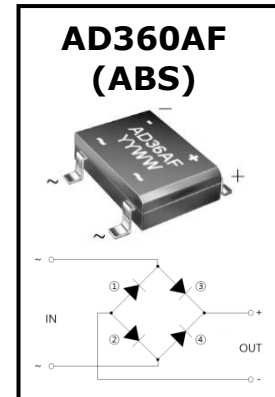
60V 5A Low VF Schottky Bridge Rectifier

Features

- Reduced low forward voltage drop (VF)
- Very low leakage current (IR) at high temperature
- High current capability up to 5A
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant

Typical Applications

- Suitable for battery-powered circuits
- Communication Equipment



Maximum Ratings Characteristics - (TA = 25°C unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	VRM	60	V
Working Peak Reverse Voltage	VRWM		V
Peak Repetitive Reverse Voltage	VRRM		V
Average Rectified Forward Current (Rated VR-20Khz Square Wave) – 50% duty cycle	ID	5	A
Non-Repetitive Peak Forward Surge Current 8.3ms	IFSM	105	A
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJC	20	°C / W
Typical Thermal Resistance Junction to Case (Note 1)	RθJA	80	°C / W
Operating Junction Temperature	TJ	-55 to +150	°C
Storage Junction Temperature	TSTG	-55 to +150	

Note 1 : Thermal resistance, junction to ambient, measured on PC board with 5.0 × 5.0mm (0.03mm thick) land areas.

Electrical Characteristics - (TA = 25°C unless otherwise specified)

Parameter	Test Conditions		Symbol	Typ.	Max.	Units
Forward Voltage	IF = 2 A	TJ = 25°C	VF*	0.45	----	V
	IF = 3 A			0.49	0.52	
	IF = 5 A			0.56	0.59	
	IF = 5 A	TJ = 125°C		0.52	----	
Reverse Current	VR = 60V	TJ = 25°C	IR*	5.5	----	uA
		TJ = 125°C		4	----	mA

* Short duration pulse test used to minimize self-heating effect.

Characteristics Curves

($T_A = 25^{\circ}\text{C}$ unless otherwise specified)

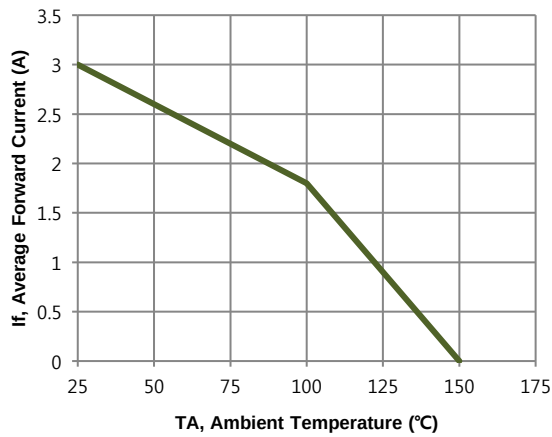


Figure 1 : DC Forward Current Derating

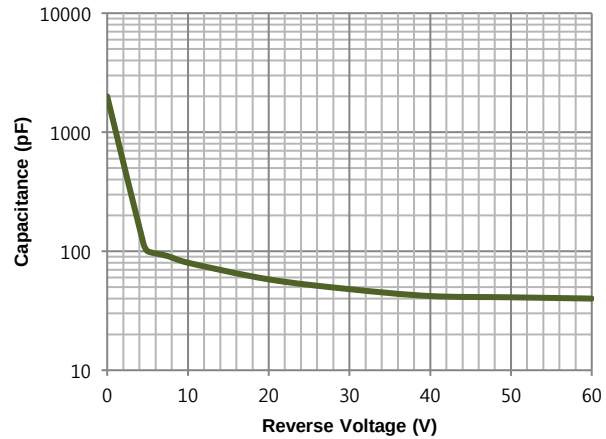


Figure 2 : Typical Junction Capacitance

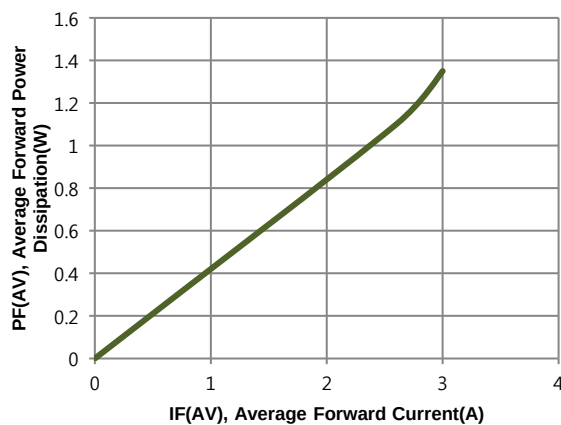


Figure 3. Forward Power Dissipation

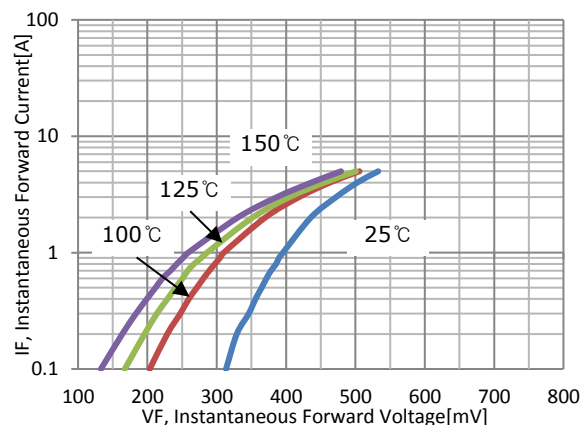


Figure 4. Typical Forward Voltage

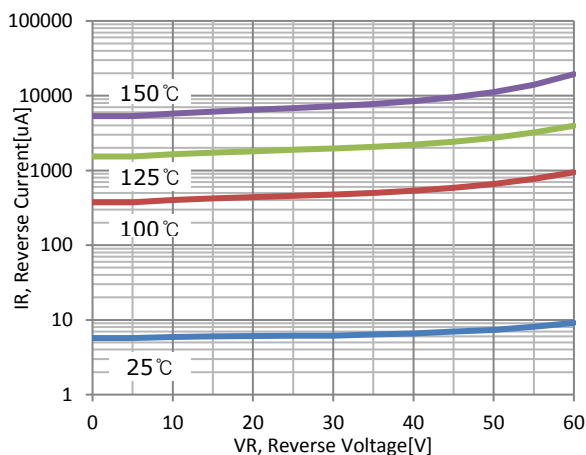


Figure 5. Typical Reverse Current

Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
AD36AF	ABS	13" Reel & Tape	Sn	Free	5,000ea

Marking Layout

1ST Line : Device Name

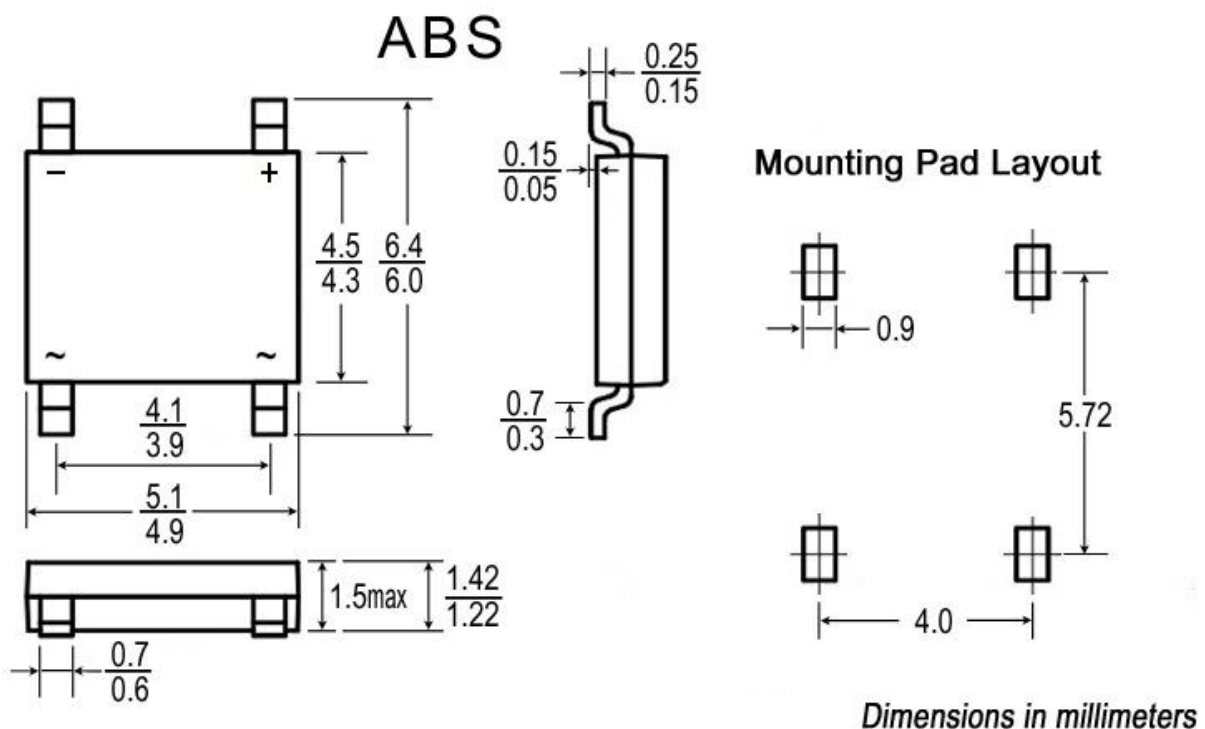
2nd Line : Date Code

- YY : Last two digit of calendar year

- WW : Work week code

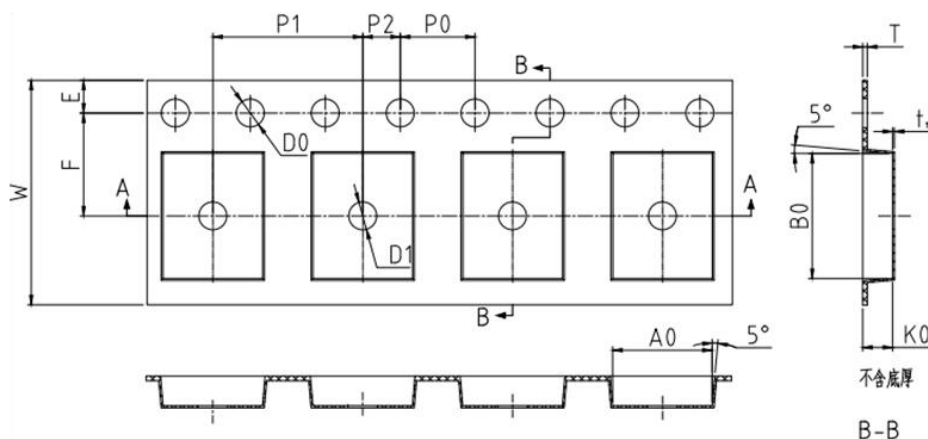


Package Dimensions



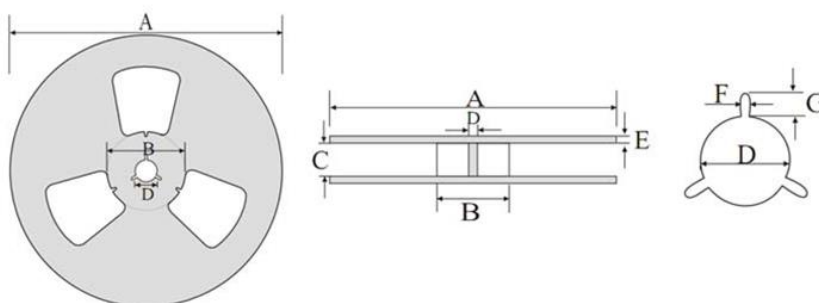
Reel Packing Method

1) ABS Embossed Carrier Tape



PKG type	W	E	F	D0	D1	P0	P1	P2	A0	B0	K0
ABS [mm]	12	1.75	5.5	1.5	1.5	4	8	2	5.31	6.68	1.59
Tolerance	±0.30	±0.10	±0.05	±0.10	±0.10	±0.10	±0.10	±0.05	±0.10	±0.30	±0.20

2) ABS Tape Leader and Trailer



Reel Option	A	B	C	D	E	F	G
Reel Dim. [mm]	330	75	13.5	13.5	2.3	3	4.5
Tolerance	±1	±1	±1	+1/-0.5	±0.10	±0.50	±0.50

Revision History

No	Date	Contents
0	2017-11-20	Initial Brief Datasheet Release
1	2018-01-16	IFSM update

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Contact. **Tel** 82.70.4693.2299 **FAX** 82.70.4000.4009

E-mail: sales@apsemi.com

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