



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AB01B

Mar. 2008

High Voltage Fast Recovery Rectifier

General Description

AB01B is a High Voltage (800V) Fast Recovery Diode. It is possible to high-speed rectify it though it is a high voltage.

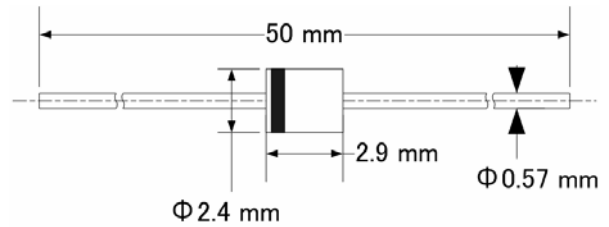
Applications

- DC-DC converters
- Snubber circuits
- High frequency rectification circuit

Features

- High Voltage 800V guarantee
- Super-high speed & low noise switching.

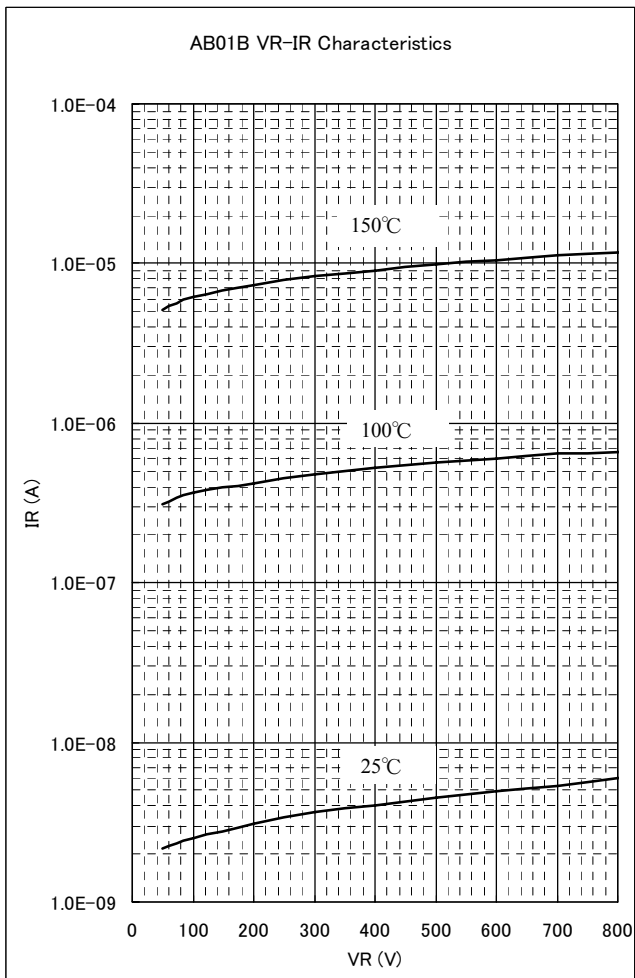
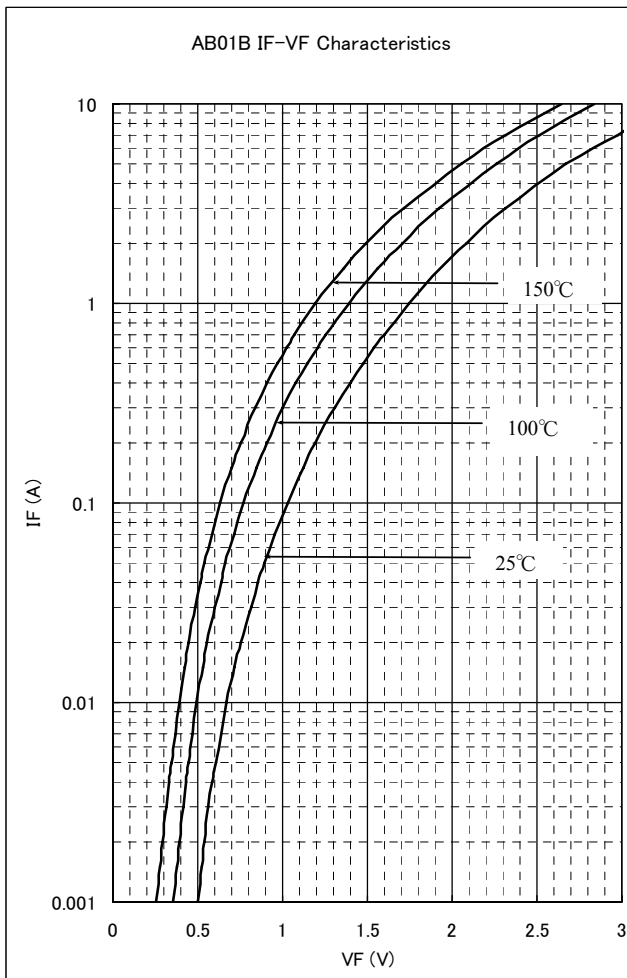
Package



Key Specifications

Symbol	Unit	Rating	Conditions
V_{RM}	V	800	
V_F	V	2.0	$I_F=0.5A$
$I_{F(AV)}$	A	0.5	
t_{rr}	ns	200	

Typical Characteristics



The information included herein is believed to be accurate and reliable. However, SANKEN ELECTRIC CO., LTD assumes no responsibility for its use ; nor for any infringements of patents or other rights of third parties that may result from its use.

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*** Absolute maximum ratings**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	800	
2	Peak Reverse Voltage	V_{RM}	V	800	
3	Average Forward Current	$I_{F(AV)}$	A	0.5	
4	Peak Surge Forward Current	I_{FSM}	A	10	Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	0.5	1msec<t<10msec
6	Junction Temperature	T_j	°C	-40 to +150	
7	Storage Temperature	T_{stg}	°C	-40 to +150	

*** Electrical characteristics (Ta=25°C, unless otherwise specified)**

No.	Parameter	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	2.0 max.	$I_F=0.5A$
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	200 max.	$V_R=V_{RM}, T_j=150^\circ C$
4	Reverse Recovery Time	t_{rr1}	ns	200 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^\circ C$
		t_{rr2}	ns	80 max.	$I_F=100mA, I_{RP}=200mA$ 75% Recovery point, $T_j=25^\circ C$
5	Thermal Resistance	$R_{th(j-c)}$	°C /W	22 max.	Between Junction and case

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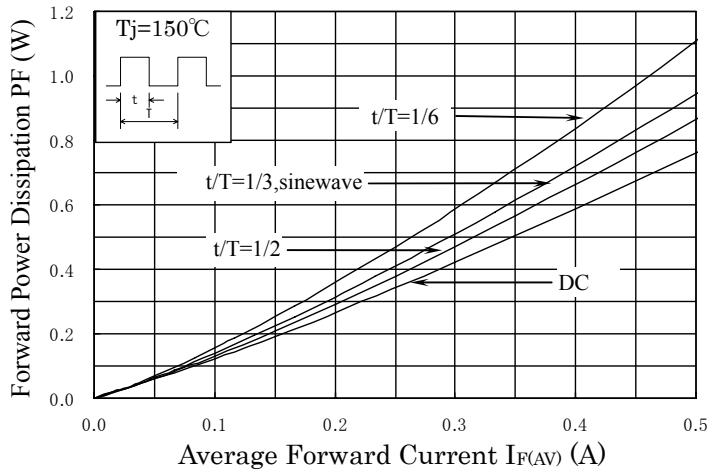
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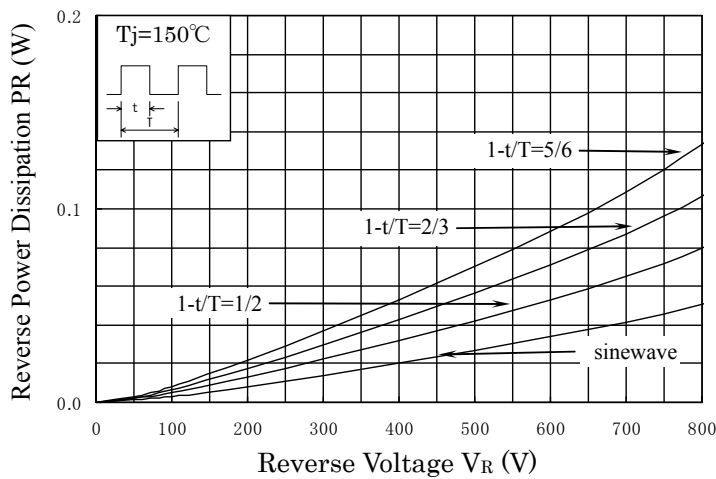
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★ **Characteristics**

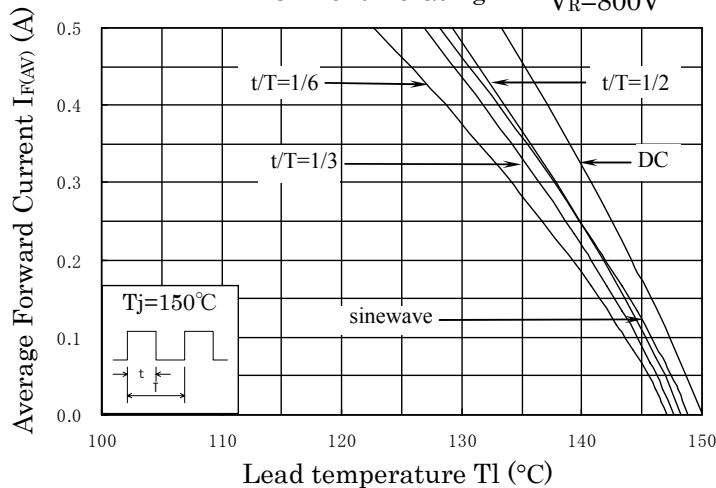
Forward Power Dissipation



Reverse Power Dissipation



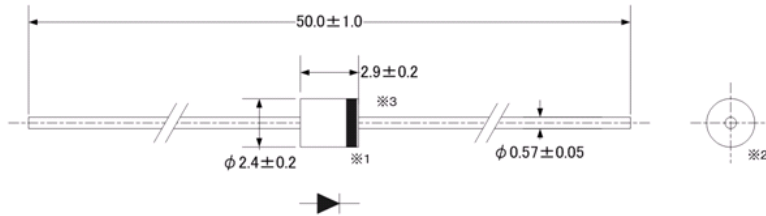
Current Derating $V_R=800\text{V}$



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High Voltage Fast Recovery Rectifier

★ Outline drawings, mm

- *1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- *2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)
- *3 The burr may exit up to 2mm from the body of lead