

GOOD-ARK Electronics

3A,20-60V Schottky Barrier Rectifiers

Features

- Low leakage current
- Schottky barrier diodes
- Low forward voltage drop
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260 ℃/10 seconds



DO-201AD

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)							
Parameter	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V _{RMS} 14 21 28 35 42		42	V			
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	٧
Maximum average forward rectified current	I _{F(AV)}	3			Α		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	IFSM	100 A			A		
Operating junction temperature range	TJ	-55 to +125			°C		
Storage temperature range	Tstg	-55 to +150		°C			

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)					
Parameter	Symbol	Тур	Unit		
Thermal Resistance, Junction to Ambient	R _{0JA}	40	°C /W		
Thermal Resistance, Junction to Case	R _θ JC	23	°C /W		
Thermal Resistance, Junction to Lead	Rejl	18	°C /W		

SB320 thru SB360 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)								
Parameter	Symbol	Test Conditions	SB320	SB330	SB340	SB350	SB360	Unit
Forward Drop Voltage	V _F	I _F =3A	0.50 0.70			70	V	
Reverse leakage current @V _R	ı	T _J =25°C	0.50					- mA
	IR	T _J =100°C	20					
Typical junction capacitance	Сл	4.0 V 1 MHZ	250			pF		

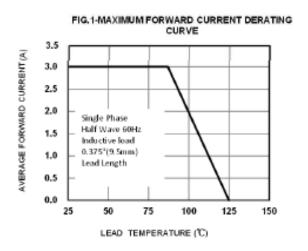
Note:

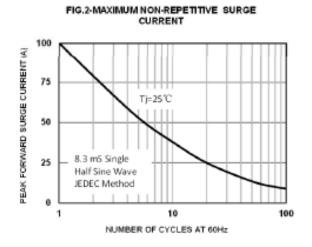
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

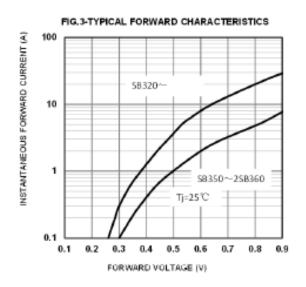
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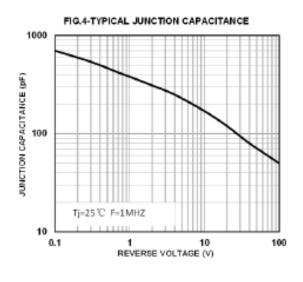
Ratings and Characteristics Curves

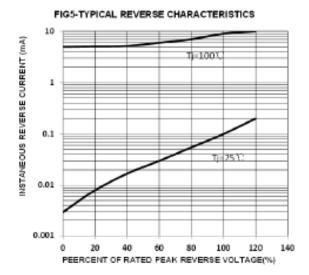
(TA = 25°C unless otherwise noted)









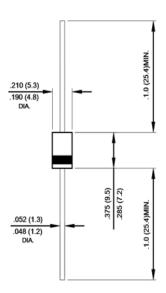




Package Outline Dimensions

in inches (millimeters)

DO-201AD



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.11.27	Modify document format



SB320 thru SB360

GOOD-ARK Flectronics

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