

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China













SB340 SCHOTTKY RECTIFIER



Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters,
 Free Wheeling, and Polarity Protection Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

- · Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Disk drives
- Battery charging

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	40	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _C =105°C, rectangular wave form	3	Α
Peak Repetitive Forward Current	I _{FRM}	At Rated V _R , Square Wave,20KHZ,T _C =80°C	10	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T _C =25°C	190	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 3A, Pulse, T _J = 25 °C	0.47	0.52	V
	V _{F2}	@ 3A, Pulse, T _J = 125 °C	0.42	0.47	V
Reverse Current*	I _{R1}	@V _R = Rated V _R , Pulse, T _J = 25 °C	0.05	1.0	mA
	I _{R2}	@V _R = Rated V _R , Pulse, T _J = 125 °C	9	30	mA
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	120	200	pF

^{*} Pulse width < 300 µs, duty cycle < 2%

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Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +125	°C
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	111	°C/W
Typical Thermal Resistance Junction to Lead	$R_{ heta JL}$	DC operation	12	°C/W
Approximate Weight	wt	-	1.02	g

Ratings and Characteristics Curves

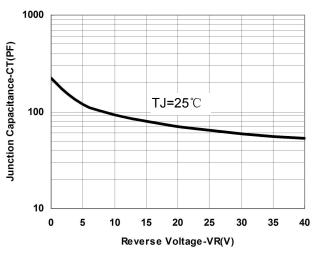


Fig.1-Typical Junction Capacitance

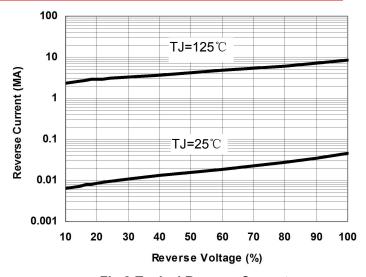


Fig.2-Typical Reverse Current

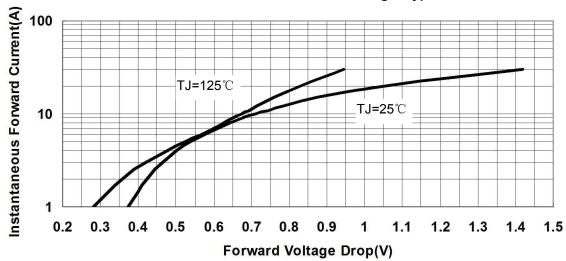


Fig.3-Typical Forward Voltage Drop Characteristics

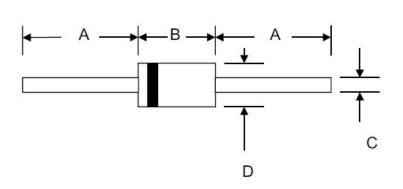
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Mechanical Dimensions DO-201AD



CVMDOI	Millimeters		Inches		
SYMBOL	Min.	Max.	Min.	Max.	
Α	25.4	-	1.000	-	
В	8.50	9.50	0.335	0.374	
С	1.2	1.3	0.048	0.052	
D	5.0	5.6	0.197	0.220	

Ordering Information

Device	Package	Shipping
SB340	DO-201AD	1250pps / topo
30340	(Pb-Free)	1250pcs / tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 SB340
 = Part Name

 SSG
 = SSG

 YY
 = Year

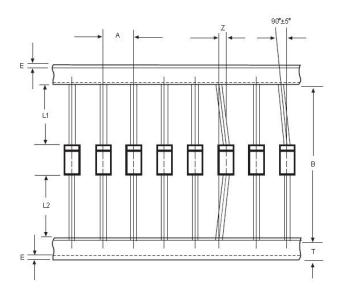
 WW
 = Week

 L
 = Lot Number

 Cautions:
 Molding resin

Epoxy resin UL:94V-0

Carrier Tape Specification DO-201AD



SYMBOL	Millimeters		
STWIBOL	Min.	Max.	
А	9.50	10.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	-	0.80	
IL1-L2I	-	1.0	

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