

SB320 thru SB340

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

- Metal-Semiconductor junction with guard ring
- · Epitaxial construction
- · Low forward voltage drop
- · High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD), > 15KV (air)

MECHANICAL DATA

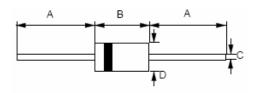
Case: JEDEC DO-201AD molded plastic

· Polarity: Color band denotes cathode

• Weight: 0.04 ounces, 1.1 grams

· Mounting position: Any

DO-201AD



DO-201AD					
Dim.	Min.	Max.			
Α	25.4	-			
В	7.30	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

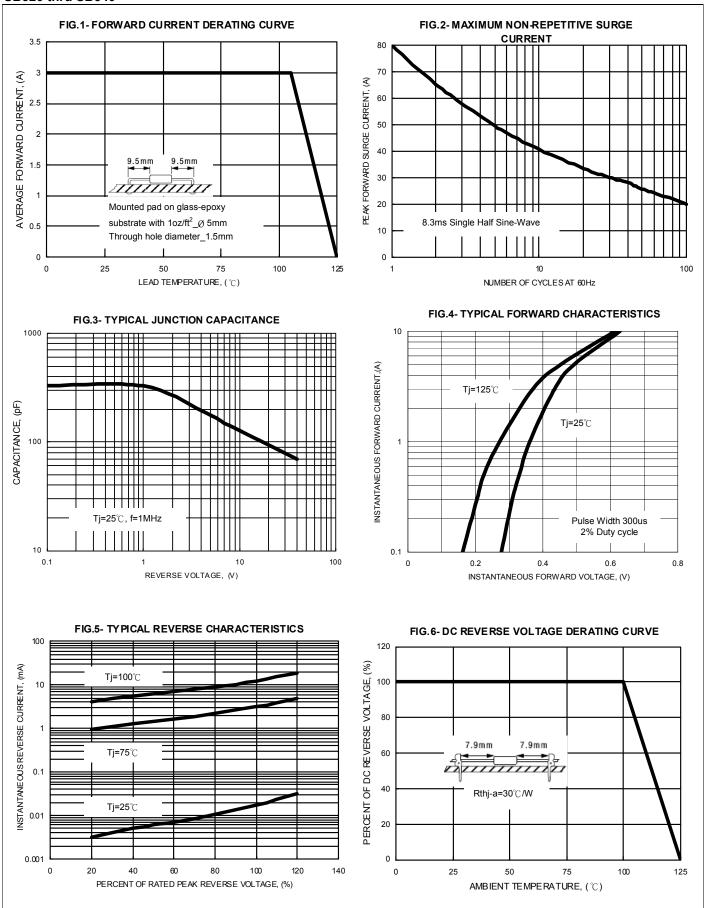
CHARACTERISTICS	SYMBOL	SB320	SB330	SB340	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current	I _{AV}		3.0		Α
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}		80		А
Maximum Forward Voltage at 3.0A DC	V _F		0.50		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R		0.15 20		mA
Typical Thermal Resistance (Note 1)	R⊕ _{JA} R⊕ _{JL} R⊕ _{JC}	30 10 10		°C/W	
Typical Junction Capacitance (Note 2)	Cj		200		pF
Operating Junction Temperature Range	Tj		-55 to +125		°C
Storage Temperature Range	T _{STG}		-55 to +150		°C

Note: (1) Thermal Resistance Junction to Ambient, Lead and Case.

(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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