

SB320 THRU SB3250

3.0 AMP. Schottky Barrier Rectifiers

1.Features

•Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.

- •Guard ring for overvoltage protection
- ·High current capability, low forward voltage drop
- ·Low power loss, high efficiency
- ·High surge capability

DO-201AD

2.Mechanical Data

•Case:Molded Plastic,DO-201AD.

•Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed

•Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

•Lead Free: For RoHS/Lead Free Version



3. Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase,half wave,60Hz,resistive or inductive load For capacitive load derate current by 20%

Type Number	Symbol	SB320	SB330	SB340	SB345	SB350	SB360	SB380	SB3100	SB3150	SB3200	SB3250	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V_{RMS}	14	21	28	31.5	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Forward Rectified (Note1) @T _L =100 °C	$I_{F(AV)}$	3.0							Α				
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80					Α						
l ² t Rating for Fusing (t<8.3ms)	l ² t		26.56					A^2s					
Forward Voltage @IF=3.0A	V_{FM}		0.	55		0.	70	0	.85	0.	92	0.95	V
Peak Reverse Current @T _A =25 ℃	1	0.1 0.05								т Л			
At Rated DC Blocking Voltage @T _J =100 °C	I _R	10.0				5.0				mA			
Typical Junction Capacitance (Note 2)	CJ		110 70					pF					
Typical Thermal Resistance Junction to Ambient	$R_{\scriptscriptstyle{\thetaJA}}$	65						°C/W					
Operating Temperature Range	T_J	-55 to+150						°C					
Storage Temperature Range	T _{STG}	-55 to+150											

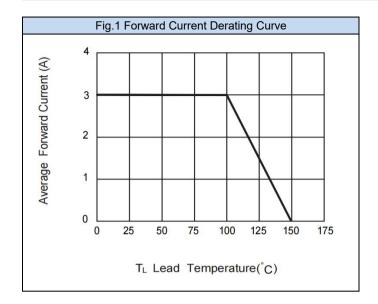
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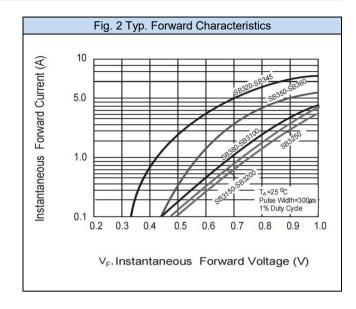
- 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
- 2.Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

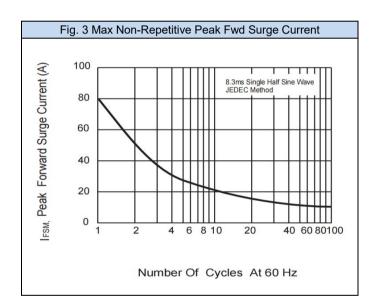


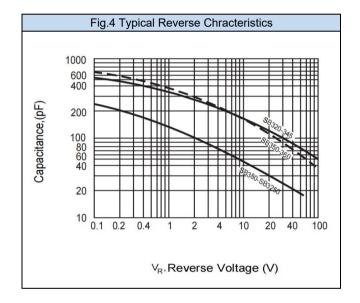
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4. Rating And Characteristic Curves





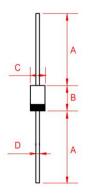






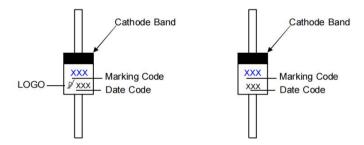
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5. Dimensions



Dimensions		Millimeters		
Difficitsions	Min	Max	Min	Max
А	0.945	-	24.0	1
В	0.335	0.374	8.5	9.5
С	0.197	0.220	5.0	5.6
D	0.043	0.051	1.1	1.3

6. Part Marking System



7. Package Information

Package	Packing
DO-201AD	1250 / Tape & Reel
DO-201AD	250 / Ammo & Box



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