



SB340L THRU SB3200L

3.0 AMP. LOW VF Schottky Barrier Rectifiers

1.Features

- Low leakage current
- Schottky barrier diodes
- Low forward voltage drop
- Guard ring for overvoltage protection
- High current capability
- High reliability.
- Meets MSL level 1, per J-STD-020

DO-201AD



2.Mechanical Data

- Case: Molded Plastic, DO-201AD.
- Epoxy: UL 94V-0 rate flame retardant.
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Mounting Position: Any
- Marking: marked on body



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(Note 1)	Symbol	SB340L	SB345L	SB350L	SB360L	SB380L	SB3100L	SB3150L	SB3200L	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	100	150	200	V
Average Forward Rectified @T _L =100℃	I _{F(AV)}	3.0								A
Peak Forward Surge Current 8.3ms @T _j =25℃ Single half sine-wave superimposed @T _j =125℃ on rated load (JEDEC Method)	I _{FSM}	80								A
		64								
I ² t Rating for Fusing (t<8.3ms)	I ² t	26.56								A ² s
Forward Voltage @I _F =3.0A	V _{FM}	0.45			0.50	0.60		0.85		V
Peak Reverse Current @T _j =25 ℃	I _R	0.2					0.05			mA
At Rated DC Blocking Voltage @T _j =100 ℃		10.0					5.0			
Typical Junction Capacitance (Note 2)	C _J	450			410	260		190		pF
Typical Thermal Resistance	R _{θJA}	45								℃/W
	R _{θJL}	10								
	R _{θJC}	8								
Operating Temperature Range	T _J	-55 to+150								℃
Storage Temperature Range	T _{STG}	-55 to+150								

Note: 1..Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



4. Rating And Characteristic Curves

Fig.1: Forward Current Derating Curve

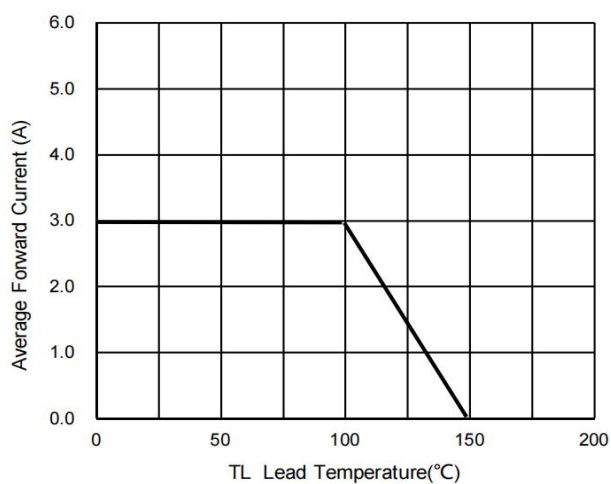


Fig. 2 Typical Forward Characteristics

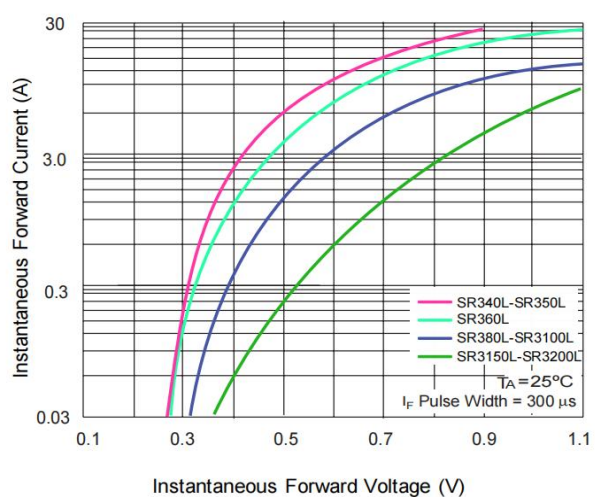


Fig. 3 Forward Surge Current Capability

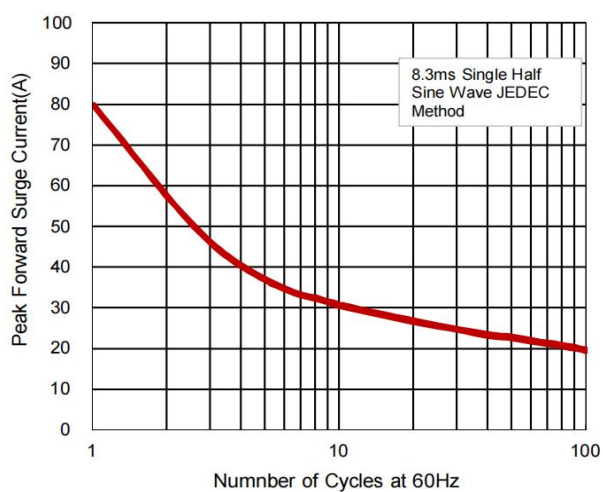
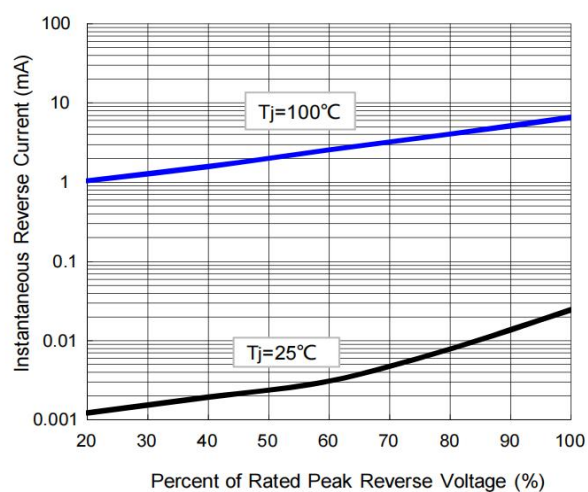


Fig.4 Typical Reverse Characteristics





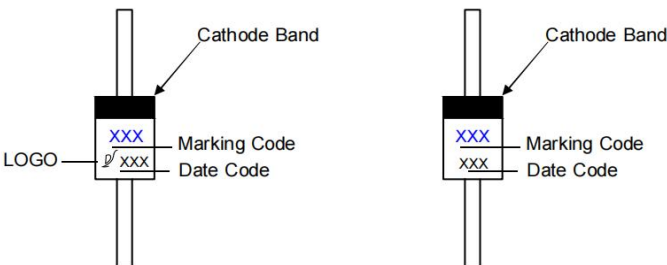
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5. Dimensions



6. Part Marking System



7. Package Information

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



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