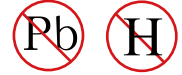




YEA SHIN TECHNOLOGY CO., LTD

SB340L THRU SB3200L

3A Low V_F SCHOTTKY Barrier Rectifiers



Voltage - 40 to 200 Volts Current - 3 Amperes

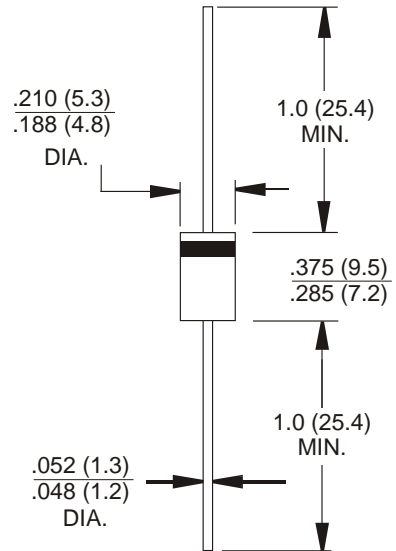
DO-201AD Unit:inch(mm)

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- High Current Capability, Low Forward Voltage Drop.
- Low Power Loss, High Efficiency.
- High Surge Capability.

Mechanical Data

- Case: DO-201AD molded plastic.
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed.
- Polarity: Color band denotes cathode end.
- Mounting Position: Any.
- Marking: Type number.
- Lead Free: For RoHS/Lead free version.



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)
 (Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.)

Parameters	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	
Maximum Average Forward Rectified Current (Note 1)	$I_{(AV)}$	3								A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80								A	
Maximum Instantaneous Forward Voltage at 3.0A	V_F	0.45			0.5	0.6		0.85		V	
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	I_R	0.2				0.05				mA	
		10				5					
Typical Junction Capacitance (Note 2)	C_J	500			350						pF
Maximum Thermal Resistance (Note 1)	$R_{\theta JA}$	25								°C/W	
Operating Temperature Range	T_J	-55 to +150								°C	
Storage Temperature Range	T_{STG}	-55 to +150								°C	

Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
 2. Measure at 1.0MHz and applied reverse voltage of 4.0 Vdc.

DEVICE CHARACTERISTICS

SB340L THRU SB3200L

FIG. 1-FORWARD CURRENT DERATING CURVE

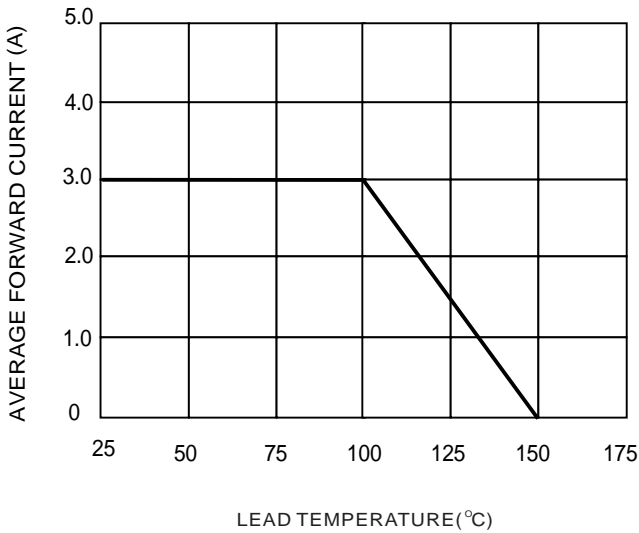


FIG.2-TYPICAL FORWARD CHARACTERISTICS

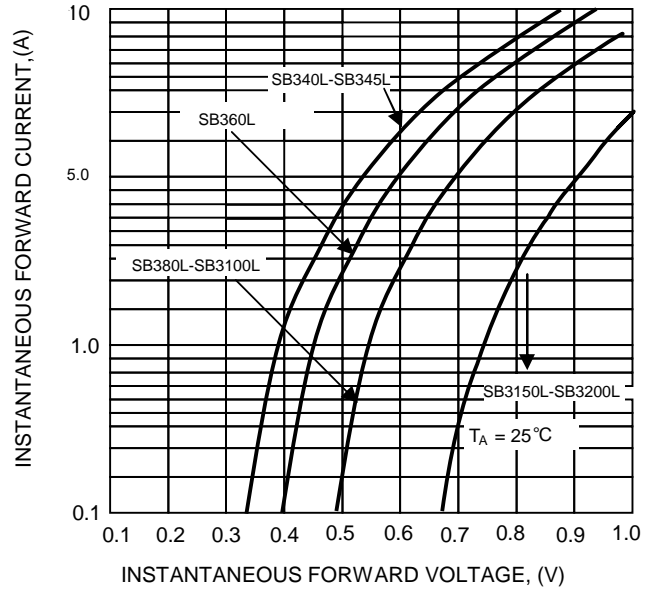


FIG. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

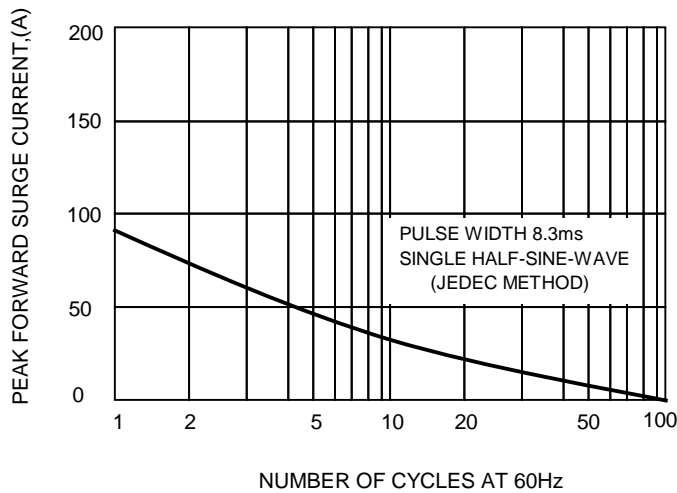


FIG.4-TYPICAL REVERSE CHARACTERISTIC

