SB340L

3A 40V Schottky Barrier Rectifier

MACHANICAL DATA

- ✧Case: DO-201AD(DO-27) molded plastic body
- ✧Terminal: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ✧Polarity: Color band denotes cathode end
- ✧Mounting Position: Any
- ✧Weight:0.04 ounce, 1.10 grams(approximate)

ORDERING INFORMATION

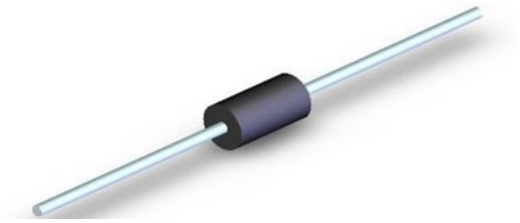
- ✧Device: SB340L
- ✧Package: DO-201AD(DO-27)
- ✧Marking: SB340L
- ✧Material: RoHS compliant
- ✧Packing: Tape & Ammo
- ✧Quantity per box: 1,250pcs

FEATURES

- ✧Metal silicon junction, majority carrier conduction
- ✧Guardring for overvoltage protection
- ✧Low power loss, high efficiency
- ✧High current capability low forward voltage drop
- ✧High surge capability
- ✧Plastic package has Underwriters Laboratory Flammability Classification 94v-0
- ✧For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

PIN CONFIGURATION

PACKAGE OUTLINE



Maximum Ratings and Electrcal Characteristics (Tamb=25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	40	V
V_{RMS}	Maximum RMS Voltage	28	V
V_{DC}	Maximum DC Blocking Voltage	40	V
I_O	Average Rectified Output Current 0.375”(9.5mm) lead length	3.0	A
I_{FSM}	Peak Forward Surge Current, 8.3ms single half sine-wave Superimposed on rated load	80	A
V_F	Maximum Instantaneous Forward Voltage At I_O	0.46	V
I_R	Maximum DC Reverse Current @ T_J=25℃ At Rated DC Blocking Voltage @ T_J=100℃	0.5 50.0	mA
R_{OJA}	Typical Thermal Resistance	20	℃/W
T_J	Operating Junction Temperature Range	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS CURVE

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

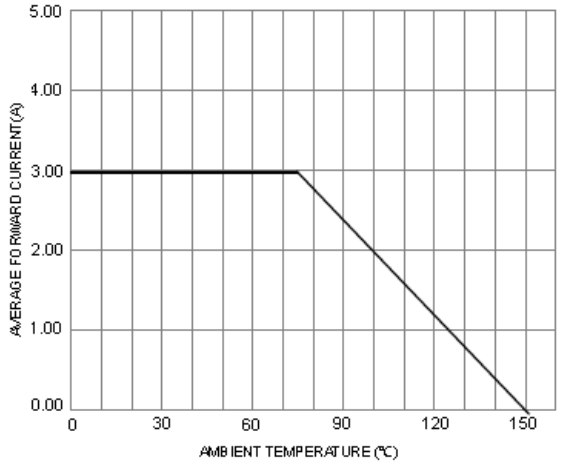


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

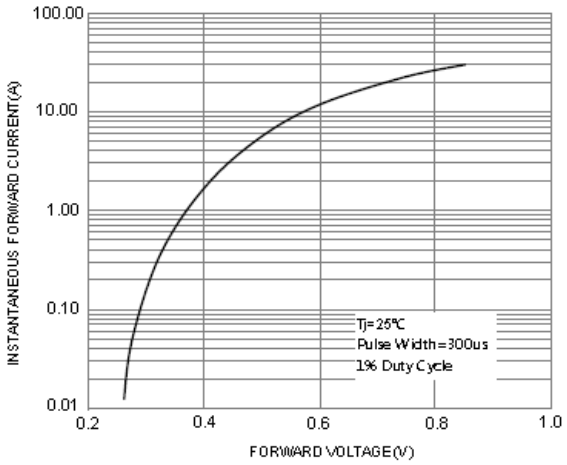


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

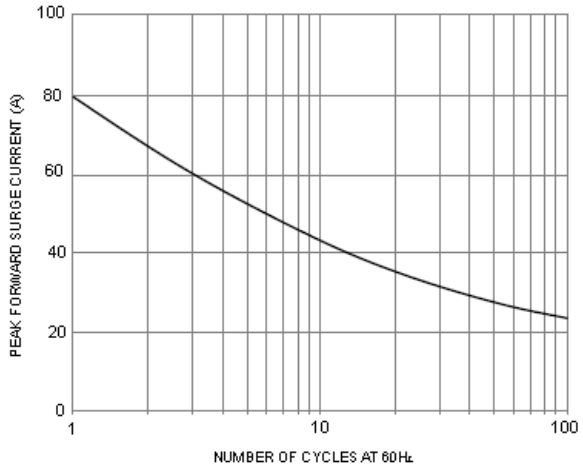
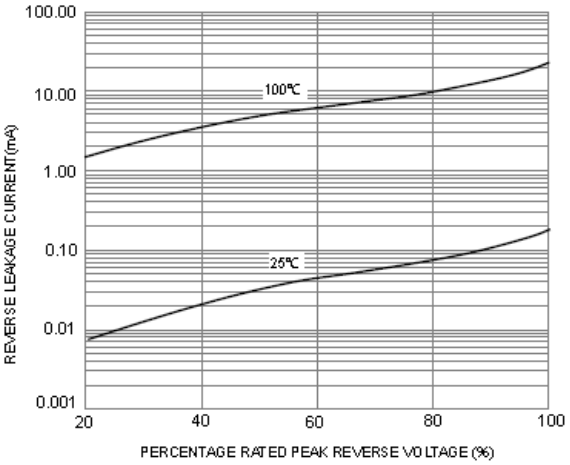
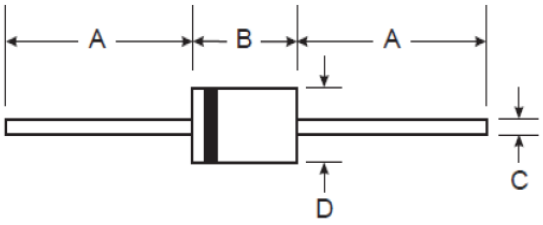


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS



DO-201AD(DO-27) PACKAGE OUTLINE DIMENSIONS



DO-201AD(DO-27) Plastic				
Dim	Min		Max	
	Inch	mm	Inch	mm
A	1.0	25.4	-	-
B	0.285	7.2	0.375	9.5
C	0.039	1.0	0.052	1.3
D	0.190	4.8	0.210	5.3