

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: SB360L
- ◇ Package: DO-201AD(DO-27)
- ◇ Marking: SB360L
- ◇ Material: RoHS compliant
- ◇ Packing: Tape & Ammo
- ◇ Quantity per box: 1,250 pcs

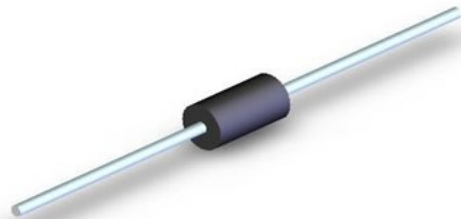
PIN CONFIGURATION



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

PACKAGE OUTLINE



Maximum Ratings and Electrical Characteristics (T_{amb}=25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	60	V
V _{RMS}	Maximum RMS Voltage	42	V
V _{DC}	Maximum DC Blocking Voltage	60	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	0.60	V
I _R	Maximum DC Reverse Current @ T _J =25°C At Rated DC Blocking Voltage @ T _J =100°C	0.5 50.0	mA
R _{OJA}	Typical Thermal Resistance	20	°C/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

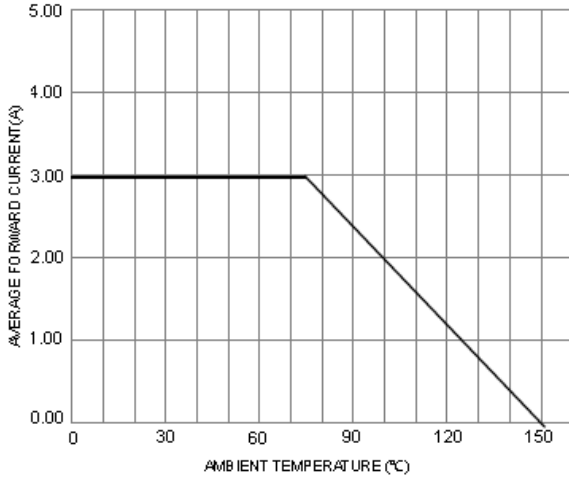


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

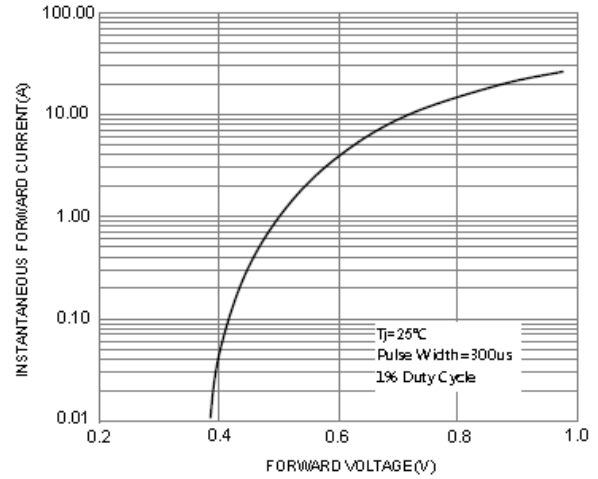


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

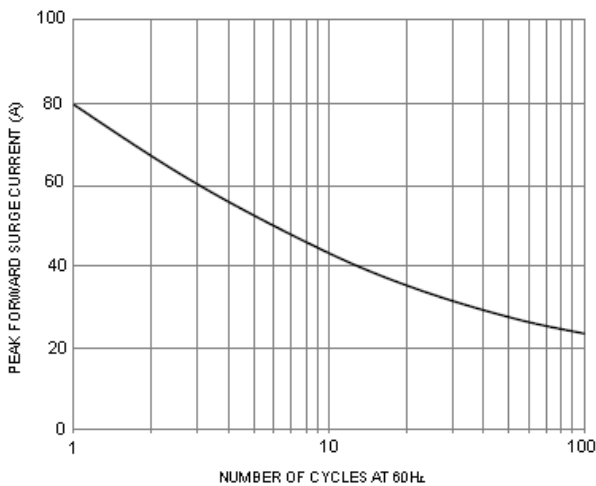
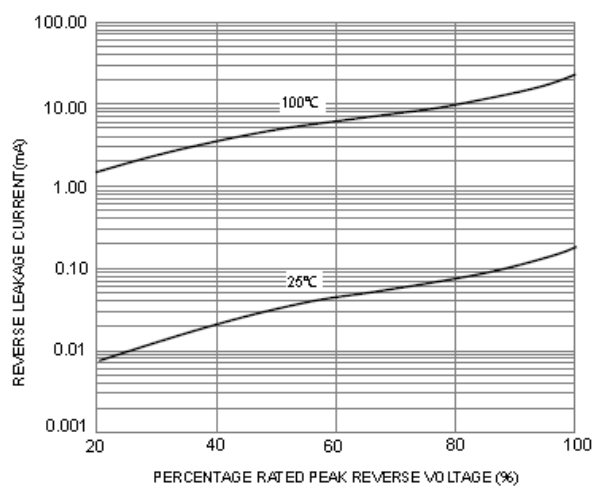
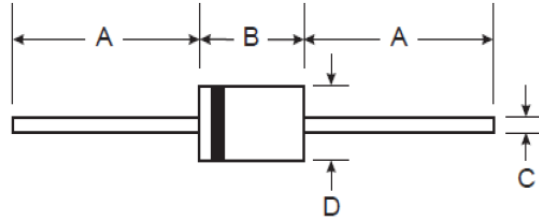


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS



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