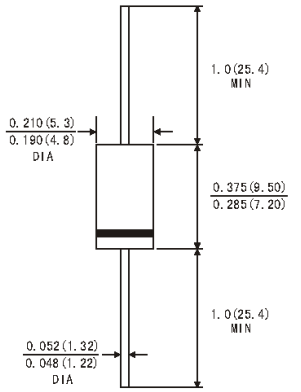
# SBL340 THRU SBL360-HAF

## SCHOTTKY BARRIER RECTIFIERS
**Reverse Voltage - 20 to 40 V**
**Forward Current - 3 A**

DO-201AD



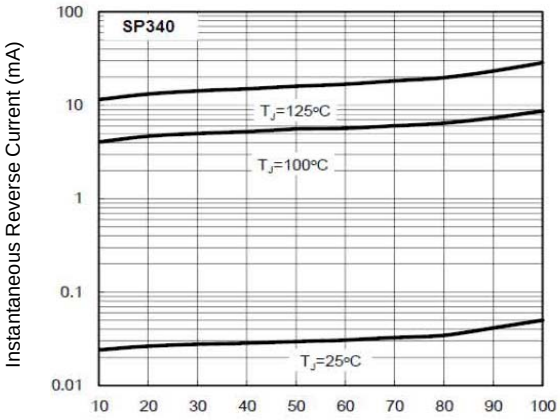

Dimensions in inches and (millimetrers)

### Features
- Excellent high temperature stability
- Low forward voltage
- Lower power loss/ high efficiency
- High forward surge capability
- Halogen and Antimony Free(HAF), RoHS compliant

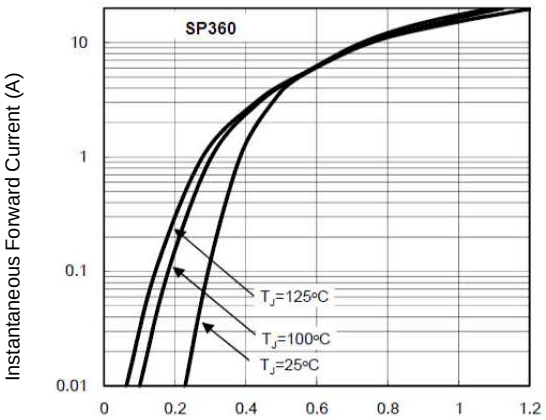
### Mechanical Data
- **Case:** DO-201AD
- **Terminals:** Matte tin plated leads, solderable per JESD22-B102
- **Mounting Position:** UL flammability classification rating 94V-0

### Maximum Ratings and Electrical Characteristics
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20%

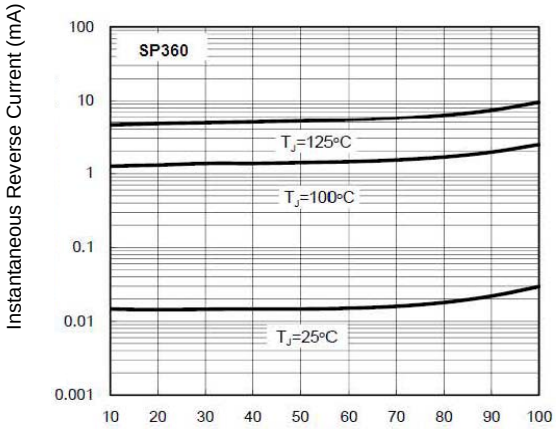
| Parameter | Symbols | SBL340 | SBL360 | Units |
|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | 40 | 60 | V |
| Working Peak Reverse Voltage | $V_{RWM}$ | 40 | 60 | |
| Maximum DC Blocking Voltage | $V_{DC}$ | 40 | 60 | |
| Maximum RMS Voltage | $V_{RMS}$ | 28 | 42 | V |
| Maximum Average Forward Rectified Current | $I_{(AV)}$ | 3 | | A |
| Peak Forward Surge Current 8.3mS Single Half Sine-wave Superimposed on Rated Load | $I_{FSM}$ | 80 | | A |
| Maximum Instantaneous Forward Voltage at 3 A at $T_J$ = 25 °C | $V_F$ | 0.45 | 0.52 | V |
| at $T_J$ =125 °C | | 0.42 | 0.48 | |
| Maximum Instantaneous Reverse Current at Rated DC Blocking Voltage at $T_J$ = 25 °C | $I_R$ | 1 | | mA |
| at $T_J$ =125 °C | | 50 | | mA |
| Typical Thermal Resistance | $R_{\theta JA}$ | 70 | | °C/W |
| | $R_{\theta JL}$ | 23 | | |
| Operating and Storage Temperature Range | $T_J$, $T_{Stg}$ | - 55 to + 150 | | °C |



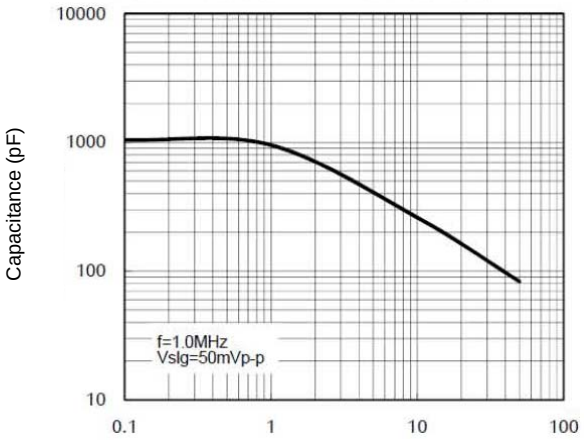

Percent of Rated Peak Reverse Voltage (%)
Figure 1.Typical Reverse Characteristics



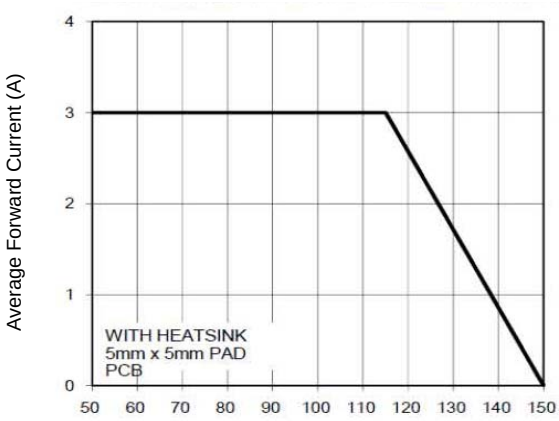

Forward Voltage (v)
Figure 2. Typical Forward Characteristics



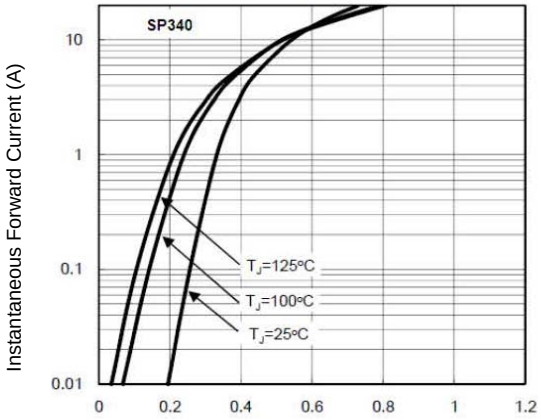

Percent of Rated Peak Reverse Voltage (%)
Figure 3.Typical Reverse Characteristics




Reverse Voltage(v)
Figure 4.Typical Junction Capacitance




Lead Temperature (℃)
Figure 5. Forward Current Derating Curve




Forward Voltage (v)
Figure 6. Typical Forward Characteristics

**TOP DYNAMIC**

ISO14001 : 2004 Certificate No. 12105007
ISO 9001 : 2008 Certificate No. 50114012
OHSAS 18001 : 2007 Certificate No. 05131508006
IECQ QC 080000