# B340LB

**3.0AMP Low V<sub>F</sub> Schottky Barrier Rectifiers**

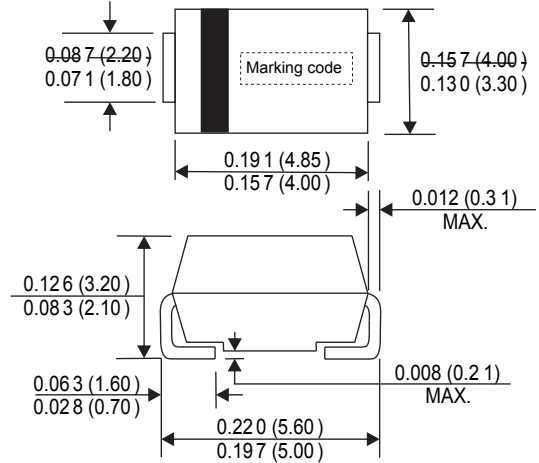$3.0AMP$ Low $V_F$ Schottky Barrier Rectifiers

**RoHS COMPLIANT**

**SMB(DO-214AA)**

## ■ Features

• Low profile surface mounted application in order to optimize board space.
• Low power loss, high efficiency.
• High current capability, low forward voltage drop.
• Ultra high-speed switching.
• Silicon epitaxial planar chip, metal silicon junction.  Suffix
 • Lead-free parts meet environmental standards of
MIL-STD-19500 /228

## ■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant
• Case : Molded plastic,  DO-214AA / SMB
• Terminals : Solder plated, solderable per
                MIL-STD-750, Method 2026
• Polarity : Indicated by cathode band
• Weight : 0.003 ounce,  0.091 gram

Marking code

0.087 (2.20 )
0.071 (1.80 )

0.157 (4.00 )
0.130 (3.30 )

0.191 (4.85 )
0.157 (4.00 )

0.012 (0.31 )
MAX.

0.126 (3.20 )
0.083 (2.10 )

0.063 (1.60 )
0.028 (0.70 )

0.008 (0.21 )
MAX.

0.220 (5.60 )
0.197 (5.00 )

Dimensions in inches and (millimeters)

## ■ Maximum ratings and electrical characteristics

Rating at 25$^{\circ}$C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Type Number | Symbol | SS 34BL | UNITS |
|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | V<sub>RRM</sub> | 40 | V |
| Maxium RMS Voltage | V<sub>RMS</sub> | 28 | V |
| Maxium DC Blocking Voltage | V<sub>DC</sub> | 40 | V |
| Average Rectified Output Current (Note 1) @T<sub>L</sub>=100℃ | I<sub>F(AV)</sub> | 3.0 | A |
| Peak forward surge  current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method) | I<sub>FSM</sub> | 80 | A |
| Forward Voltage       @IF=2.0A | V<sub>FM</sub> | 0.45 | V |
| Peak Reverse Current    @TA=25℃ | I<sub>R</sub> | 0.5 | mA |
| At Rated DC Blocking Voltage @TA=100℃ | I<sub>R</sub> | 20 | mA |
| Typical Junction Capacitance (Note 2) | C<sub>J</sub> | 250 | pF |
| Typical Thermal Resistance Junction toAmbient(Note 1) | R<sub>θJA</sub> | 55 | ℃/W |
| Operating Temperature Range | T<sub>J</sub> | -55 to +150 | ℃ |
| Storage Temperature Range | T<sub>STG</sub> | -55 to +150 | ℃ |

Note: 1.Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2.Measured at 1.0MHz and applied reverse voltage of

4.0V DC. mensions in inches and (millimeters)

**http://www.lgesemi.com**

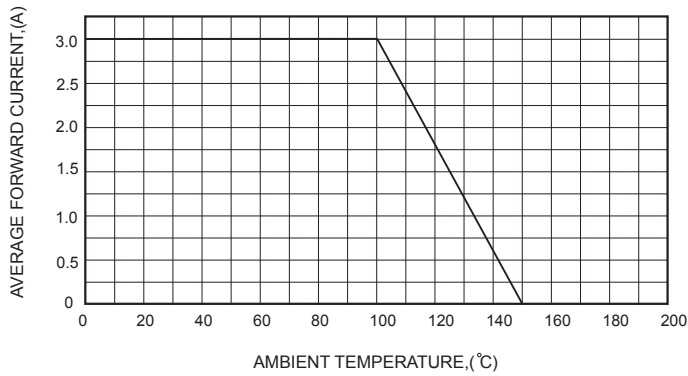■ Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE
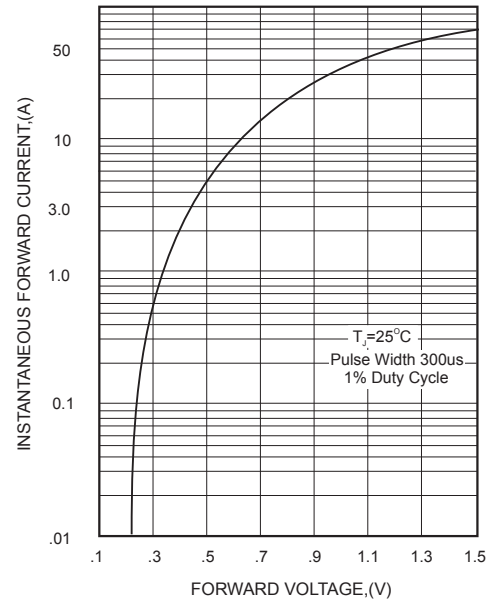


FIG.2-TYPICAL FORWARD CHARACTERISTICS



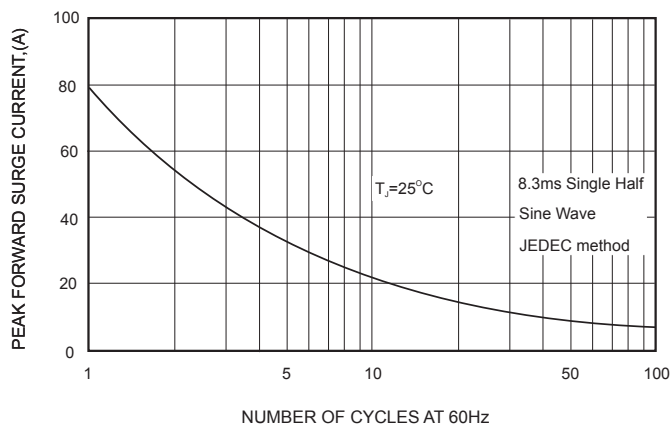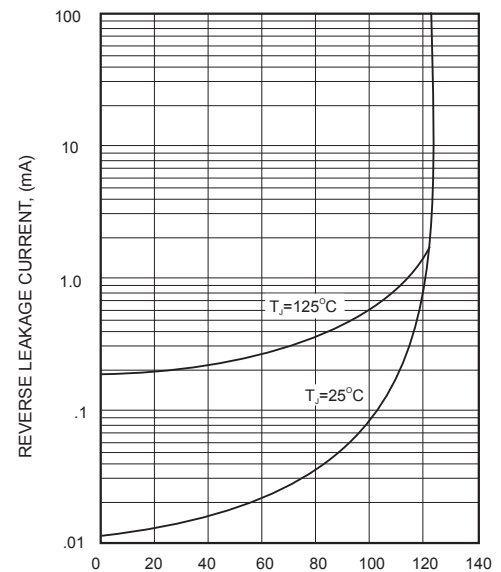FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



FIG.4-TYPICAL JUNCTION CAPACITANCE



FIG.5 - TYPICAL REVERSE CHARACTERISTICS

mail:lge@lgesemi.com