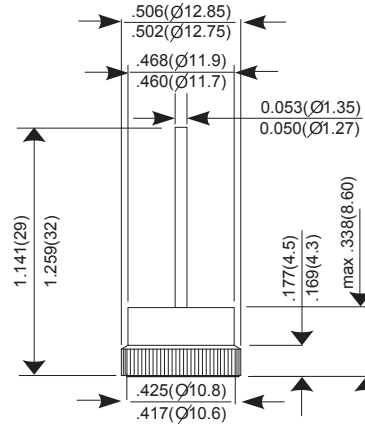


### 35Amp Bosch Type Pressfit AVALANCHE Automotive Rectifiers

| <p><b>Features</b></p> <ul style="list-style-type: none"> <li>★ Low forward voltage drop</li> <li>★ High current capability</li> <li>★ High reliability</li> <li>★ High surge current capability</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>★ Case: OFC Heat Sink</li> <li>★ Encap: Epoxy Sealed Rated<br/>UL94V-0</li> <li>★ Weight: 6.70gram</li> </ul> | <p style="text-align: center;"><b>Voltage Range 16 to 28 V<br/>Current 35 Ampere</b></p> <p style="text-align: center;"><b><u>PRESS-FIT</u></b></p>  <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr><th colspan="2">Ring color</th></tr> <tr><td>35A(P)</td><td>black</td></tr> <tr><td>35A(N)</td><td>brown</td></tr> </table> <p style="text-align: center; font-size: small;">Dimensions in inches and (millimeters)</p> | Ring color |  | 35A(P) | black | 35A(N) | brown |
|--|---|------------|--|--------|-------|--------|-------|
| Ring color   |   |            |  |        |       |        |       |
| 35A(P)   | black   |            |  |        |       |        |       |
| 35A(N)   | brown   |            |  |        |       |        |       |

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.

| PARAMTER  | SYMBOL   | PBFR3518JP(N) | PBFR3520JP(N) | PBFR3530JP(N) | UNIT     |
|---|----------|---------------|---------------|---------------|----------|
| Maximum Peak Repetitive Reverse Voltage@Irrm=100mA  | VRRM     | 19-24         | 24-32         | 34-45         | V        |
| Maximum RMS Voltage   | VRMS     | 16            | 20            | 28            | V        |
| Maximum DC Blocking Voltage(TA=25°C)  | VB       | 16            | 20            | 28            | V        |
| Maximum Average Forward Current Io@Tc=150°C<br>60 Hz, resistive or inductive load                       | I(AV)    | 35            |               |               | A        |
| Peak Forward Surge Current, 8.3ms single<br>Half sine-wave superimposed on rated load<br>(JEDEC method) | IFSM     | 450           |               |               | A        |
| Maximum Inst. Forward Voltage Drop,<br>IF at 80Amp  | VF       | 1.2           |               |               | V        |
| Maximum DC Reverse Current (VB)@TJ=25°C<br>At Rated DC Blocking Voltage (VB)@TJ=175°C                   | IR       | 1<br>150      |               |               | uA<br>uA |
| Operating Junction and Storage Temperature Range  | TJ, TSTG | -40 to +175   |               |               | °C       |

FIG.1 - FORWARD CURRENT DERATING CURVE

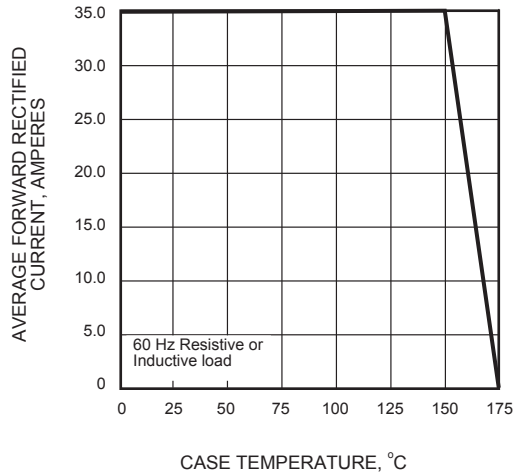


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

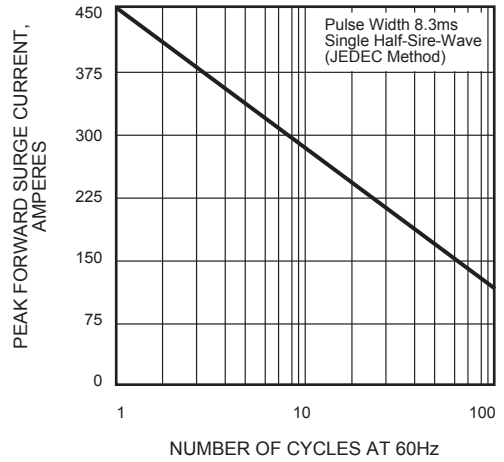


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

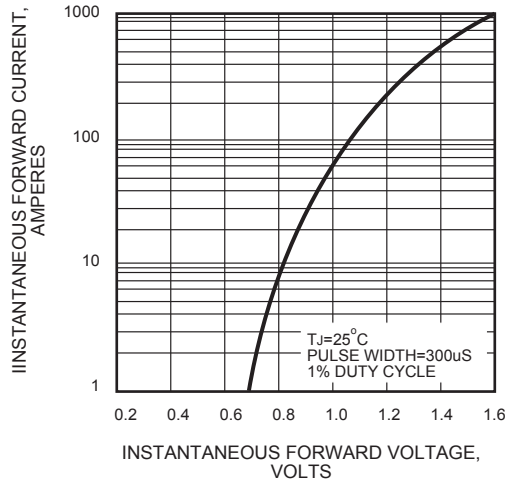


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

