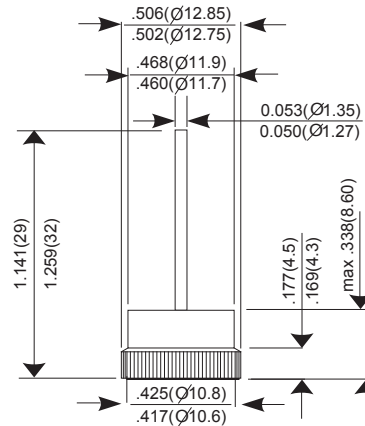


# 50Amp Bosch Type Pressfit AVALANCHE Automotive Rectifiers

<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 UL94V-0</li> <li>★ Weight: 6.70 gram</li> </ul>	<p><b>Voltage Range 16 to 28 V</b> <b>Current 50 Ampere</b></p>					
	<p><b>PRESS-FIT</b></p>  <p>Dimensions in inches and (millimeters)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2">Ring color</th> </tr> <tr> <td>50A(P)</td> <td>white</td> </tr> <tr> <td>50A(N)</td> <td>blue</td> </tr> </table>	Ring color		50A(P)	white	50A(N)
Ring color						
50A(P)	white					
50A(N)	blue					

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	PBFR5018JP(N)	PBFR5020JP(N)	PBFR5030JP(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 60 Hz, resistive or inductive load	I(AV)	50			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	600			A
Maximum Inst. Forward Voltage Drop, IF at 100Amp	VF	1.2			V
Maximum DC Reverse Current (VB)@TJ=25°C At Rated DC Blocking Voltage (VB)@TJ=175°C	IR	1 150			uA uA
Operating Junction and Storage Temperature Range	TJ, TSTG	-40 to +175			°C

FIG.1 - FORWARD CURRENT DERATING CURVE

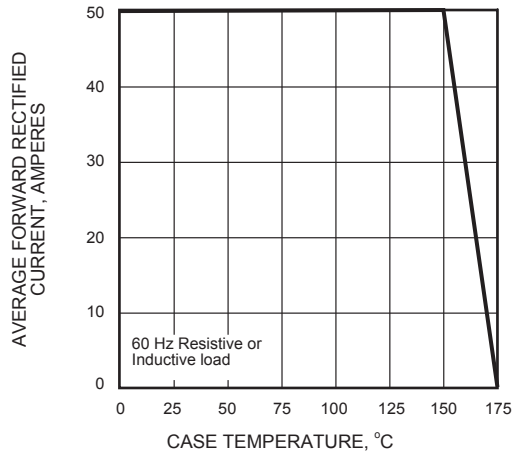


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

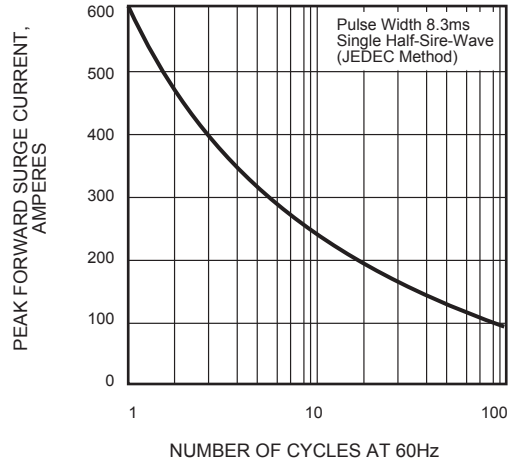


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

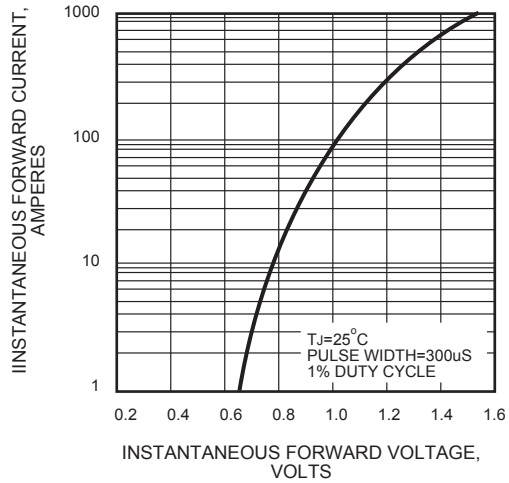


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

