



31DF2.....31DF4

### 3 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p><b>Dimensions in mm.</b></p> <p><b>DO-201AD (Plastic)</b></p> <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 3 mm. to the body.</li> </ol>	<p><b>Voltage</b> 200 to 400 V</p> <p><b>Current</b> 3 A at 40 °C.</p>
	<ul style="list-style-type: none"> <li>• Glass Passivated Junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>

#### Maximum Ratings, according to IEC publication No. 134

		<b>31DF2</b>	<b>31DF4</b>
$V_{RRM}$	Peak Recurrent reverse voltage	200 V	400 V
$I_{F(AV)}$	Forward current at $T_{amb} = 40\text{ °C}$	3 A	
$I_{FRM}$	Recurrent peak forward current	15 A	
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	90 A	
$t_{rr}$	Reverse recovery time from $I_F = 0.5\text{ A}$ ; $I_R = 1\text{ A}$ ; $I_{RR} = 0.25\text{ A}$	30 ns	
$T_j$	Operating temperature range	- 65 to + 150 °C	
$T_{stg}$	Storage temperature range	- 65 to + 150 °C	

#### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

$V_F$	Max. forward voltage drop at $I_F = 3\text{ A}$	0.98 V	1.25 V
$I_R$	Max. reverse current at $V_{RRM}$ at 25 °C	10 $\mu\text{A}$	
$R_{thj-a}$	Max. thermal resistance ( $l = 10\text{ mm.}$ )	30 °C/W	





Rating And Characteristic Curves

