

3 Amp. Glass Passivated Junction Rectifier

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| <p>Dimensions in mm.</p> <p style="text-align: right;">DO-201 AD (Plastic)</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 3 mm. to the body. | <p>Voltage 50 to 1200 V.</p> <p>Current 3.0 A. at 55 °C.</p> |
| | <ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode |

Maximum Ratings, according to IEC publication No. 134

| | | GP30A | GP30B | GP30D | GP30G | GP30J | GP30K | GP30M | GP30Q |
|-------------|--|------------------|-------|-------|-------|-------|-------|-------|-------|
| V_{RRM} | Peak recurrent reverse voltage (V) | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 |
| $I_{F(AV)}$ | Forward current at $T_{amb} = 55\text{ °C}$ | 3 A | | | | | | | |
| I_{FRM} | Recurrent peak forward current | 30 A | | | | | | | |
| I_{FSM} | 8.3 ms. peak forward surge current (Jedec Method) | 125 A | | | | | | | |
| T_j | Operating temperature range | - 65 to + 175 °C | | | | | | | |
| T_{stg} | Storage temperature range | - 65 to + 175 °C | | | | | | | |
| E_{RSM} | Maximum non repetitive peak reverse avalanche energy. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$ | 20 mJ | | | | | | | |

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

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|-------------|--|--|
| V_F | Max. forward voltage drop at $I_F = 3\text{ A}$ | 1.1 V |
| I_R | Max. reverse current at V_{RRM} at 25 °C at 150 °C | 5 $\mu\text{ A}$ 300 $\mu\text{ A}$ |
| R_{thj-a} | Thermal resistance ($l = 10\text{ mm.}$) Max. Typ. | 30 °C/W 15 °C/W |

Rating And Characteristic Curves

