

## Standard Recovery Diodes (Stud and Flat Base Type), 350A

**Features**

- Diffused Series
- Industrial grade
- Available in Normal and Reverse polarity
- Metric and UNF thread type

**Electrical Specifications** ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)

| Symbol      | Parameters   | Values | Units                  |
|-------------|--|--------|------------------------|
| $I_{F(AV)}$ | Maximum avg. forward current @ $T_C = 125^\circ\text{C}$ | 350    | A                      |
| $V_{FM}$    | Maximum peak forward voltage drop @ rated $I_{F(AV)}$    | 1.40   | V                      |
| $I_{FSM}$   | Maximum peak one cycle (non-rep) surge current @ 10 msec | 6100   | A                      |
| $I^2t$      | Maximum $I^2t$ rating (non-rep) for 5 to 10 msec         | 186000 | $\text{A}^2\text{sec}$ |



DO-205AB (DO-9)

**Voltage Ratings** ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)

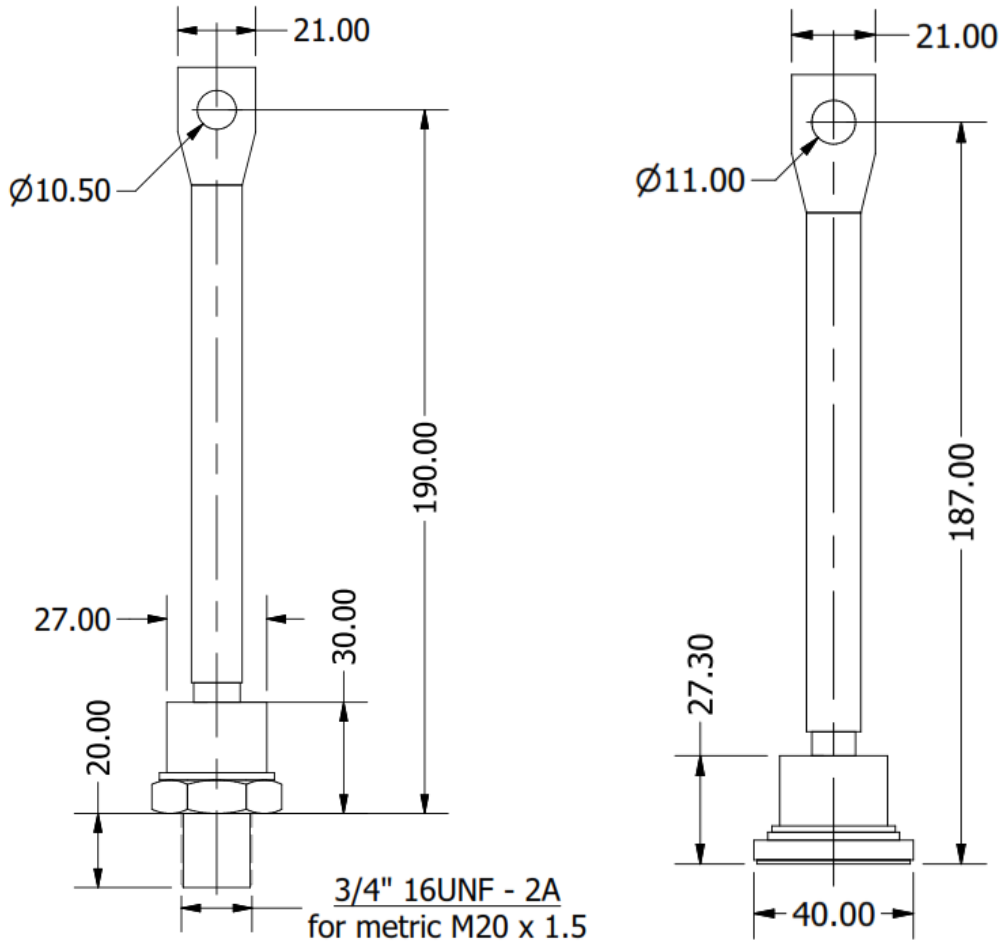
| Type number | Voltage Code | $V_{RRM}$ , Maximum repetitive peak reverse voltage (V) | $V_{R(RMS)}$ , Maximum RMS reverse voltage (V) | $I_{RRM}$ , Maximum reverse leakage current at $T_J$ Max (mA) |
|-------------|--------------|---|--|---|
| 350NS(R)    | 10           | 100   | 70   | 15  |
|             | 20           | 200   | 140  |   |
|             | 40           | 400   | 280  |   |
|             | 60           | 600   | 420  |   |
|             | 80           | 800   | 560  |   |
|             | 100          | 1000  | 700  |   |
|             | 120          | 1200  | 840  |   |
|             | 140          | 1400  | 980  |   |
|             | 160          | 1600  | 1120   |   |

**Thermal & Mechanical Specifications** ( $T_C = 25^\circ\text{C}$ , unless otherwise noted)

| Symbol       | Parameters                                   | Values        | Units                     |
|--------------|--|---------------|---------------------------|
| $R_{th(JC)}$ | Maximum thermal resistance, junction to case | 0.16          | $^\circ\text{C}/\text{W}$ |
| $T_J$        | Operating junction temperature range         | -50 to 150    | $^\circ\text{C}$          |
| $T_{stg}$    | Storage temperature                          | -50 to 180    | $^\circ\text{C}$          |
| F            | Mounting torque (non-lubricated threads)     | $35 \pm 10\%$ | Nm                        |
| W            | Approximate allowable weight                 | 250           | g                         |

**Package Outline**

**Dimensions for DO-205AB (DO-9) (in millimeters)**



**Ordering Table**

| 350 | NS | R | 120 |
|-----|----|---|-----|
| 1   | 2  | 3 | 4   |

- 1 – Current Rating =  $I_F (AV)$
- 2 – Rectifier Diode
- 3 – Polarity:
  - > None = Normal (Cathode to Stud)
  - > R = Reverse (Anode to Stud)
- 4 – Voltage Code x 10 =  $V_{RRM}$  (See Voltage Ratings Table)