

Standard Recovery Diodes (Stud and Lead Type), 25A

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 @ $T_C = 150^\circ\text{C}$ | 25 | A |
| V_{FM} | Maximum peak forward voltage drop @ rated $I_{F(AV)}$ | 1.3 | V |
| I_{FSM} | Maximum peak one cycle (non-rep) surge current @ 10 msec | 400 | A |
| I^2t | Maximum I^2t rating (non-rep) for fusing | 800 | A^2sec |



DO-203AB (DO-5)

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) | V_R , Maximum DC blocking voltage (V) | Recommended RMS working voltage (V) | I_{RRM} , Maximum reverse leakage current (mA) |
|-------------|--------------|---|--|---|-------------------------------------|--|
| 25NS(R) | 10 | 100 | 70 | 100 | 40 | 12 |
| | 20 | 200 | 140 | 200 | 80 | |
| | 40 | 400 | 280 | 400 | 160 | |
| | 60 | 600 | 420 | 600 | 240 | |
| | 80 | 800 | 560 | 800 | 320 | |
| | 100 | 1000 | 700 | 1000 | 400 | |
| | 120 | 1200 | 840 | 1200 | 480 | |
| | 140 | 1400 | 980 | 1400 | 560 | |
| 160 | 1600 | 1120 | 1600 | 640 | | |

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

| Symbol | Parameters | Values | Units |
|--------------|--|----------------|---------------------------|
| $R_{th(jc)}$ | Maximum thermal resistance, junction to case | 1.5 | $^\circ\text{C}/\text{W}$ |
| T_J | Operating junction temperature range | -65 to 150 | $^\circ\text{C}$ |
| T_{stg} | Storage temperature | -65 to 150 | $^\circ\text{C}$ |
| F | Mounting torque (non-lubricated threads) | $1.5 \pm 10\%$ | Nm |
| W | Approximate allowable weight | 7 | g |

