

Phase Control Thyristors (Stud Type), 150A

Features

- Improved glass passivation for high reliability
- Exceptional stability at high temperatures
- High di/dt and dv/dt capabilities
- Metric thread type available
- Low thermal resistance

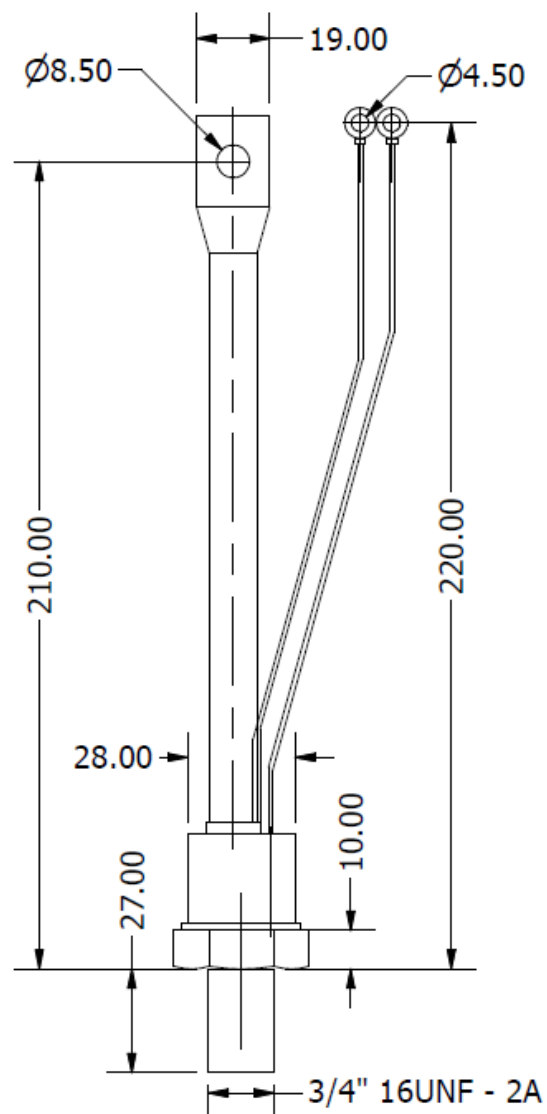
| Electrical Ratings ($T_A = 25^{\circ}\text{C}$, unless otherwise noted) | | | | |
|--|---|--------------------|-------------|------------------------|
| Parameters | | Symbol | Values | Units |
| Maximum on-state average current 180° sinusoidal conduction @ $T_J = 85^{\circ}\text{C}$ | | $I_{T(AV)}$ | 150 | A |
| Maximum RMS on-state current | | $I_{T(RMS)}$ | 235 | A |
| Maximum peak, one cycle non-repetitive surge current | | I_{TSM} | 5700 | A |
| Maximum I^2t for fusing | | I^2t | 163000 | A^2s |
| Maximum repetitive peak on and off-state voltage range | | V_{RRM}, V_{DRM} | 400 to 1600 | V |
| Maximum peak on-state voltage ($T_J = 25^{\circ}\text{C}$, $I_{peak} = 79\text{A}$) | | V_{TM} | 1.8 | V |
| Maximum holding current @ T_J | | I_H | 200 | mA |
| Maximum latching current @ T_J | | I_L | 400 | mA |
| Maximum rate of rise of turn-on current, $V_{DRM} \leq 600\text{V}$ | | di/dt | 200 | $\text{A}/\mu\text{s}$ |
| Critical rate of rise of off-state voltage | $T_J = T_J$ maximum, 100% V_{DRM} | dv/dt | 200 | $\text{V}/\mu\text{s}$ |
| | $T_J = T_J$ maximum, 67% V_{DRM} | | 400 | |
| Maximum gate current required to trigger | anode supply 6 V resistive load @ T_J | I_{GT} | 150 | mA |
| Maximum gate voltage required to trigger | | V_{GT} | 2.0 | V |



TO-209AB (TO-93)

| Thermal and Mechanical Specifications ($T_A = 25^{\circ}\text{C}$, unless otherwise noted) | | | |
|--|--------------|----------------------|-----------------------------|
| Parameters | Symbol | Values | Units |
| Maximum operating junction temperature range | T_J | - 60 to +125 | $^{\circ}\text{C}$ |
| Maximum storage temperature range | T_{Stg} | - 60 to +125 | $^{\circ}\text{C}$ |
| Maximum thermal resistance, junction to case | $R_{th(jc)}$ | 0.11 | $^{\circ}\text{C}/\text{W}$ |
| Mounting torque | F | 0.2(min) to 0.3(max) | mkg |
| Approximate weight | W | 14 | g |

Package Outline



ALL DIMENSIONS IN MM