

## 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

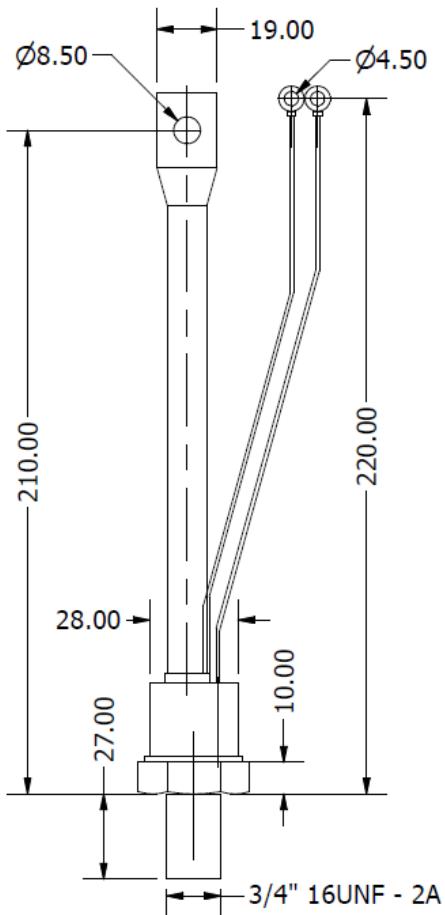
Electrical Ratings ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)			
Parameters	Symbol	Values	Units
Maximum on-state average current 180° sinusoidal conduction @ $T_J = 85^\circ\text{C}$	$I_{T(AV)}$	150	A
Maximum RMS on-state current	$I_{T(RMS)}$	235	A
Maximum peak, one cycle non-repetitive surge current	$I_{TSM}$	5700	A
Maximum $i^2t$ for fusing	$i^2t$	163000	$\text{A}^2\text{s}$
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% $V_{DRM}$	200	$\text{V}/\mu\text{s}$
		400	
Maximum gate current required to trigger	$I_{GT}$	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

## Ordering Table

150	NT	120
1	2	3

1 – Current Rating =  $I_F (AV)$

2 – Phase Controlled Thyristor (SCR)

3 – Voltage x 10 =  $V_{RRM}$