

## Phase Control Thyristors, 125A

### Features

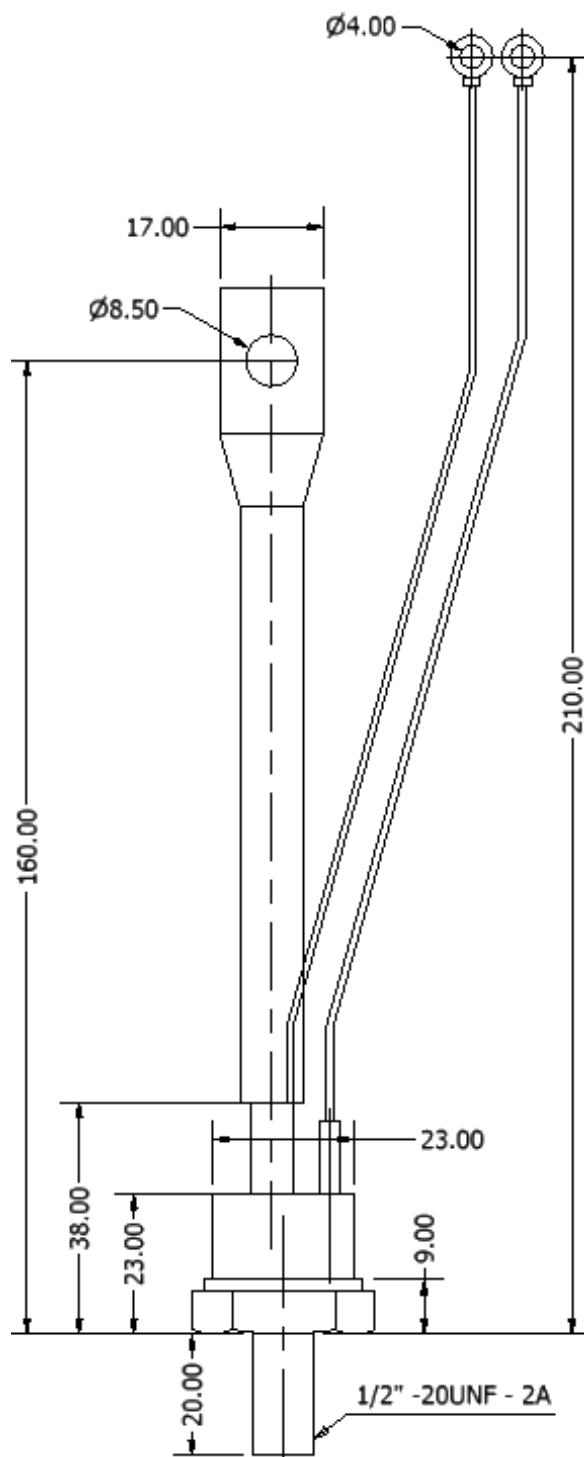
- Improved glass passivation for high reliability
- Exceptional stability at high temperatures
- High di/dt and dv/dt capabilities
- Metric thread type available
- Low thermal resistance

Electrical Ratings ( $T_J = 25^\circ\text{C}$ , unless otherwise noted)			
Parameters	Symbol	Values	Units
Maximum on-state average current 180° sinusoidal conduction @ $T_J = 85^\circ\text{C}$	$I_{T(\text{AV})}$	125	A
Maximum RMS on-state current	$I_{T(\text{RMS})}$	196	A
Maximum peak, one cycle non-repetitive surge current	$I_{T(\text{SM})}$	3500	A
Maximum $I^2t$ for fusing	$I^2t$	61250	$\text{A}^2\text{s}$
Maximum repetitive peak on and off-state voltage range	$V_{RRM}, V_{DRM}$	400 to 1600	V
Maximum peak on-state voltage ( $T_J = 25^\circ\text{C}$ , $I_{peak} = 79\text{A}$ )	$V_{TM}$	1.2	V
Maximum holding current @ $T_J$	$I_H$	250	mA
Maximum latching current @ $T_J$	$I_L$	600	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% $V_{DRM}$	300	$\text{V}/\mu\text{s}$
		500	
Maximum gate current required to trigger	$I_{GT}$	150	mA
Maximum gate voltage required to trigger	$V_{GT}$	3.0	V



TO-209AC (TO-94)

Thermal and Mechanical Specifications ( $T_J = 25^\circ\text{C}$ , 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	$R_{th(jc)}$	0.18	$^\circ\text{C}/\text{W}$
Mounting torque		0.2(min) to 0.3(max)	mkg
Approximate weight		14	g



ALL DIMENSIONS IN MM