

Phase Control Thyristors (Stud Type), 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

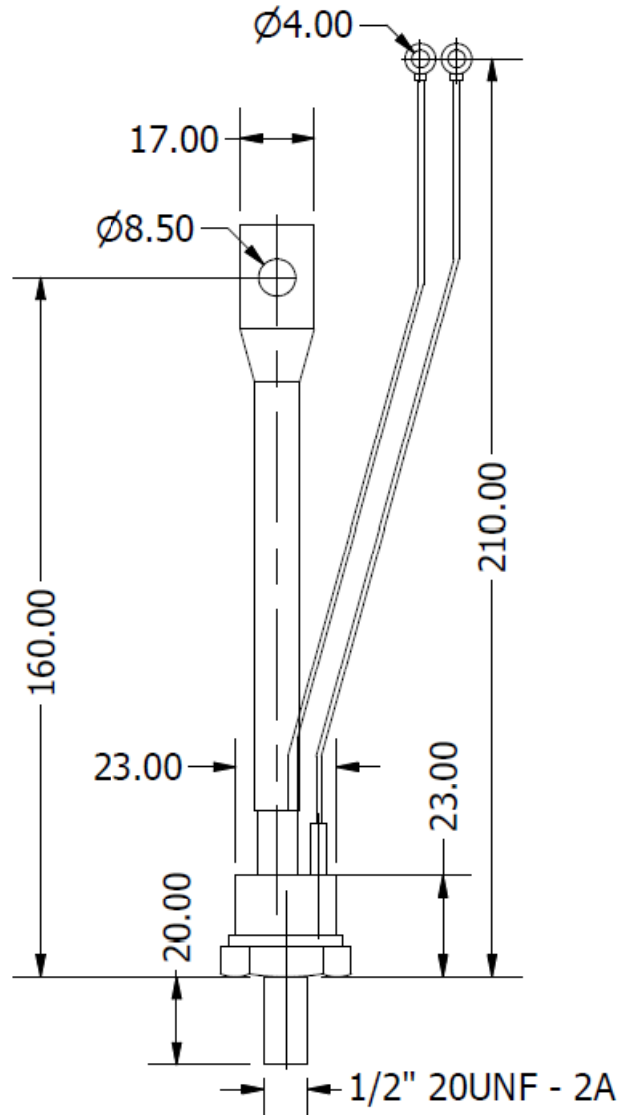
Electrical Ratings ($T_A = 25^{\circ}\text{C}$, unless otherwise noted)				
Parameters		Symbol	Values	Units
Maximum on-state average current 180° sinusoidal conduction @ $T_J = 85^{\circ}\text{C}$		$I_{T(AV)}$	125	A
Maximum RMS on-state current		$I_{T(RMS)}$	196	A
Maximum peak, one cycle non-repetitive surge current		I_{TSM}	3500	A
Maximum I^2t for fusing		I^2t	61250	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}	1.2	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}	dv/dt	300	$\text{V}/\mu\text{s}$
	$T_J = T_J$ maximum, 67% V_{DRM}		500	
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}	3.0	V



TO-209AC (TO-94)

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	$R_{th(jc)}$	0.18	$^{\circ}\text{C}/\text{W}$
Mounting torque	F	0.2(min) to 0.3(max)	mkg
Approximate weight	W	14	g

Package Outline



ALL DIMENSIONS IN MM