

Phase Control Thyristors (Stud Type), 40A

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 ^o sinusoidal conduction @ T _A = 85 ^o C		I _{T(AV)}	40	A
Maximum RMS on-state current		I _{T(RMS)}	63	A
Maximum peak, one cycle non-repetitive surge current		I _{TSM}	600	A
Maximum I ² t for fusing		I ² t	800	A ² s
Maximum repetitive peak on and off-state voltage range		V _{RRM} , V _{DRM}	200 to 1600	V
Maximum peak on-state voltage (T _A = 25 ^o C, I _{peak} = 79A)		V _{TM}	1.2	V
Maximum holding current @ T _A		I _H	150	mA
Maximum latching current @T _A		I _L	400	mA
Maximum rate of rise of turn-on current, V _{DRM} ≤ 600V		di/dt	200	A/μs
Critical rate of rise of off-state voltage	T _A = T _A maximum, 100% V _{DRM}	dv/dt	100	V/μs
	T _A = T _A maximum, 67% V _{DRM}		300	
Maximum gate current required to trigger	anode supply 6 V resistive load @T _A	I _{GT}	60	mA
Maximum gate voltage required to trigger		V _{GT}	2.0	V

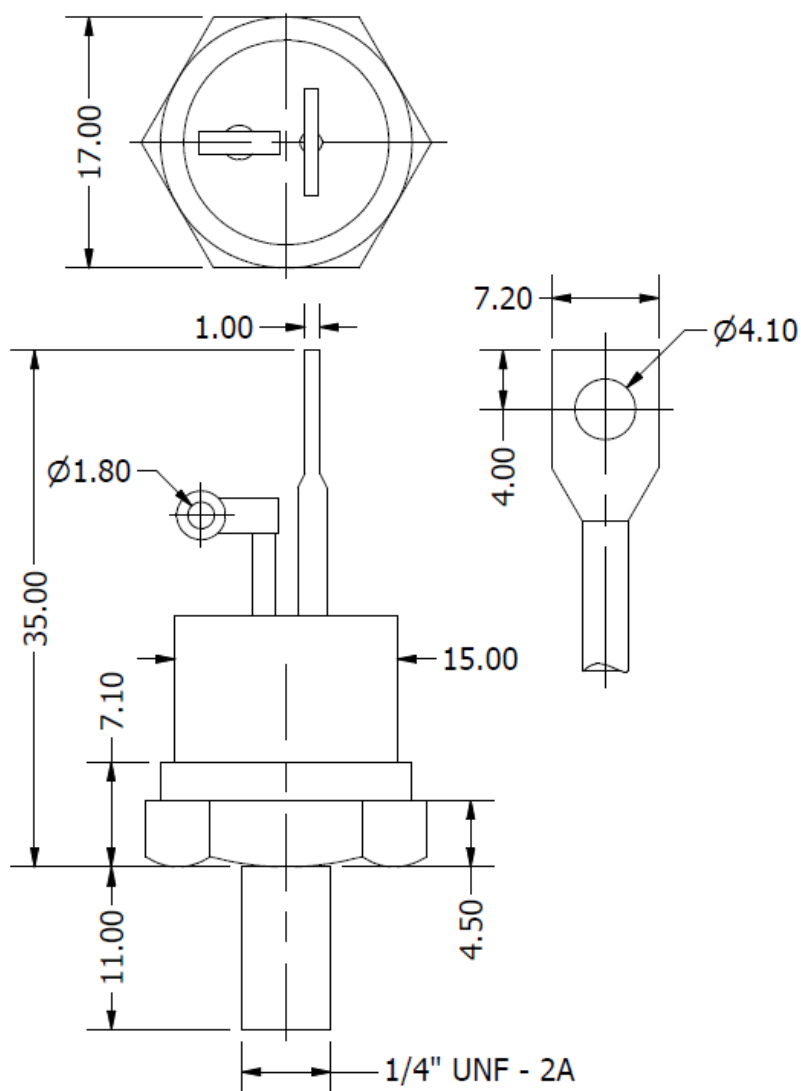


TO-208AC (TO-65)

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	$R_{th(JC)}$	0.9	$^{\circ}\text{C}/\text{W}$
Mounting torque		0.2(min) to 0.3(max)	mkg
Approximate weight		14	g

Package Outline



ALL DIMENSIONS IN MM