

Thyristor – Diode Module

Features

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

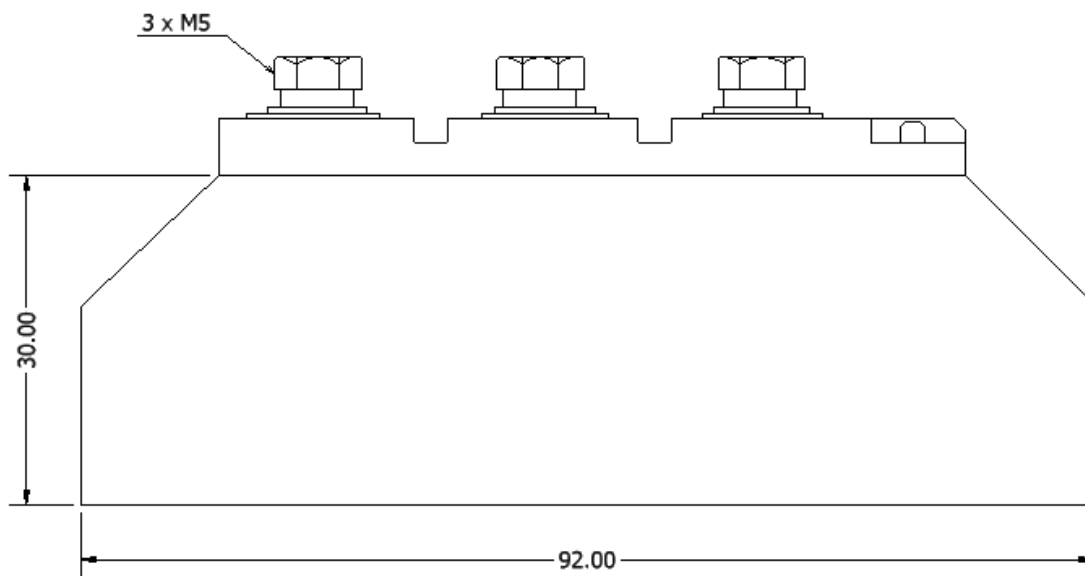
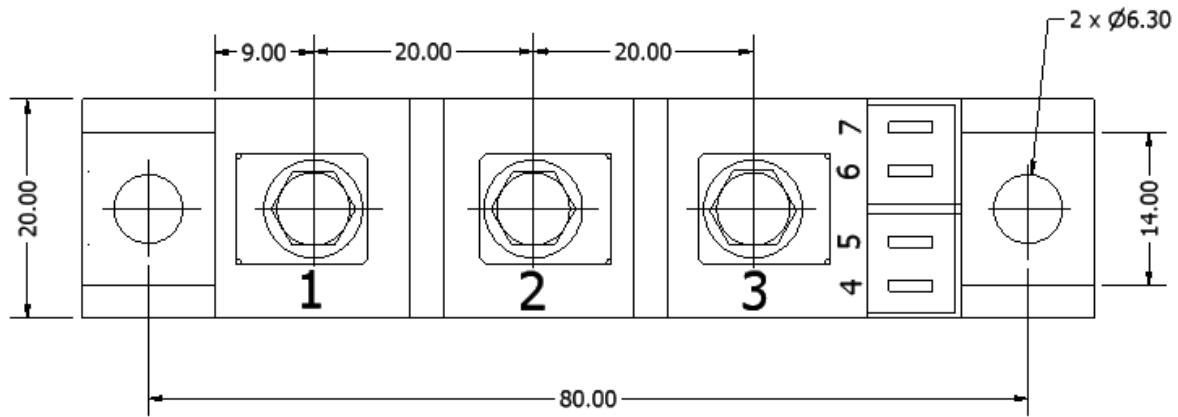
Maximum Ratings ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)			
Parameter	Symbol	Values	Units
Maximum average forward current @ $T_J = 85^{\circ}\text{C}$	$I_{F(AV)}$	70	A
Maximum average RMS forward current	$I_{F(RMS)}$	160	A
Maximum non-repetitive surge current @ $t = 10\text{ms}$	I_{FSM}	1500	A
Maximum I^2t for fusing @ $t = 10\text{ms}$	I^2t	11	kA^2s



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Thermal & Mechanical Specifications ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)			
Parameter	Symbol	Values	Units
Operating junction temperature range	T_J	-65 to +125	$^{\circ}\text{C}$
Thermal resistance, junction to case	$R_{th(JC)}$	0.35	$^{\circ}\text{C}/\text{W}$

Electrical Characteristics ($T_A = 25^{\circ}\text{C}$ unless otherwise noted)			
Parameter	Symbol	Values	Units
Maximum average on-state current	$I_{T(max)}$	70	A
Maximum repetitive peak reverse voltage range	V_{RRM}	200 to 1600	V
Forward voltage drop	V_{FM}	1.3	V
Gate current required to trigger	I_{GT}	100	A
Gate voltage required to trigger	V_{GT}	2	V
Holding current range	I_H	5 to 100	mA
Maximum latching current	I_L	400	mA
Critical rate of rise of off-state voltage	dv/dt	300	V/ μs
RMS isolated voltage	V_{ISO}	2500	V



ALL DIMENSIONS ARE IN MM

Diode Configuration

