

## Diode-Diode Module, 700 Amps

**Features**

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

**Voltage Ratings** ( $T_A = 25^\circ\text{C}$ , unless otherwise noted)

Type number	Voltage Code	$V_{RRM}$ , Maximum repetitive peak reverse voltage (V)	$V_{RSM}$ , Maximum non-repetitive peak reverse voltage (V)	$I_{RRM}$ , Maximum reverse leakage current @ $T_{JMAX}$ (mA)
NDD701 H	200	2000	2100	max. 30
	220	2200	2300	

**Electrical Characteristics** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

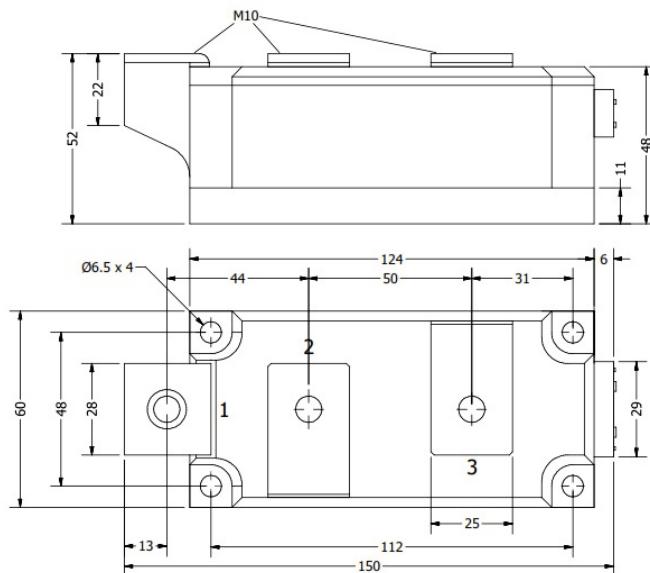
Parameter	Symbol	Values	Units
Maximum average forward current @ $T_C = 85^\circ\text{C}$	$I_{F(AV)}$	700	A
Maximum average RMS forward current	$I_{F(RMS)}$	1100	A
Maximum non-repetitive surge current	$I_{FSM}$	25000	A
Maximum $I^2t$ for fusing	$I^2t$	3125000	$\text{A}^2\text{s}$
Forward voltage drop	$V_{FM}$	max. 1.3	V
Isolation voltage, 1 min.	$V_{ISO}$	4000	V

**Thermal & Mechanical Specifications** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	Values	Units
Operating junction temperature range	$T_J$	-40 to +160	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$
Thermal resistance, junction to case	$R_{th(JC)}$	0.07	$^\circ\text{C}/\text{W}$
Mounting torque	F	$5 \pm 15\%$	Nm
		$10 \pm 15\%$	
Weight	W	1500	g

## Package Outline

(All dimensions in mm)



## Circuit Configuration

Circuit Description	Configuration Code	Circuit Drawing
Series Connection (doubler circuit)	N	
Common Anode	A	
Common Cathode	K	

## Ordering Table

NDD	701	N	220	H
1	2	3	4	5

1 – Power Module

- > DD = Diode-Diode
- > TD = Thyristor-Diode
- > TT = Thyristor-Thyristor

2 – Current Rating =  $I_T(AV)$

3 – Circuit Configuration (see Table)

4 – Voltage Code (see Voltage Ratings table)

5 – Isolation Voltage

- > None = 3000V, 1 min.
- > H = 4000V, 1 min.