Diode-Diode Module, 100 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°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)	V_{DRM}, Maximum repetitive peak off-state voltage (V)	I_{RRM}, Maximum reverse leakage current @ T_{JMAX} (mA)
NDD100	60	600	700	600	max. 5
	80	800	900	800	
	100	1000	1100	1000	
	120	1200	1300	1200	
	140	1400	1500	1400	
	160	1600	1700	1600	
	180	1800	1900	1800	

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Values	Units
Maximum average forward current @ T_J = 85°C	$I_{F(AV)}$	100	A
Maximum average RMS forward current	$I_{F(RMS)}$	157	A
Maximum non-repetitive surge current	I_{FSM}	2500	A
Maximum I^2t for fusing	I^2t	31250	A^2s
Forward voltage drop	V_{FM}	max. 1.35	V
Isolation voltage	V_{ISO}	3000	V

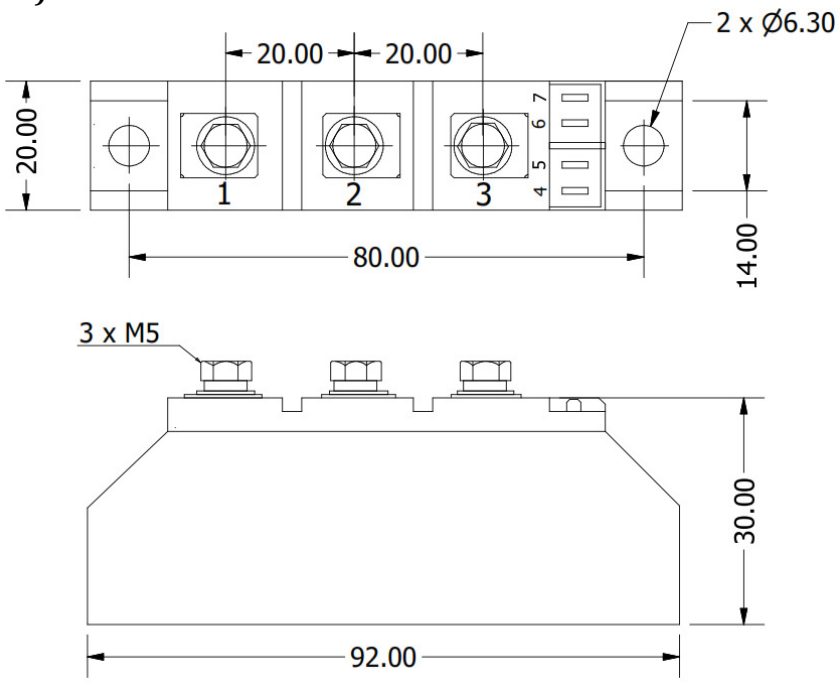
Thermal & Mechanical Specifications (T_A = 25°C unless otherwise noted)

Parameter		Symbol	Values	Units
Operating junction temperature range		T_J	-40 to +125	°C
Storage temperature		T_{stg}	-40 to +125	°C
Thermal resistance, junction to case		$R_{th(JC)}$	0.35	°C/W
Mounting torque	to heatsink	F	4 ± 15%	Nm
	to terminals		3 ± 15%	
Weight		W	100	g

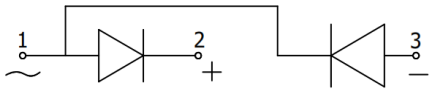
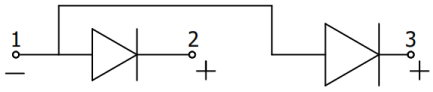
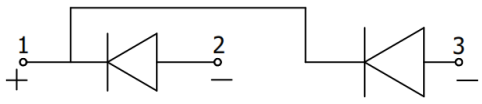
D-95, Sector 63, Noida – 201301, India • Tel: 0120-4205450 • Fax: 0120-4273653
sales@nainasemi.com • www.nainasemi.com

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	

D-95, Sector 63, Noida – 201301, India • Tel: 0120-4205450 • Fax: 0120-4273653
sales@nainasemi.com • www.nainasemi.com

Ordering Table

NDD	*100*	*N*	*160*
1	2	3	4

1 – Power Module
- DD = Diode-Diode
- TD = Thyristor-Diode
- TT = Thyristor-Thyristor

2 – Current Rating = $I_{F(AV)}$

3 – Circuit Configuration (see Table)

4 – Voltage Code (see Voltage Ratings table)

D-95, Sector 63, Noida – 201301, India • Tel: 0120-4205450 • Fax: 0120-4273653
sales@nainasemi.com • www.nainasemi.com