



## Rectifier Diode Modules

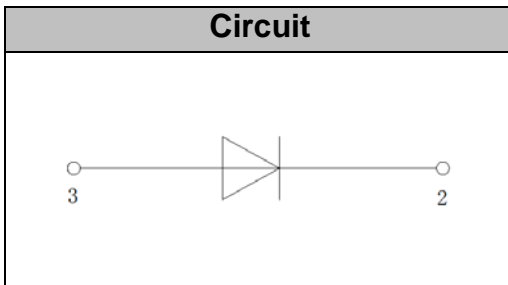
**V<sub>RRM</sub>** 800 to 1600V  
**I<sub>FAV</sub>** 400 A

### Applications

- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors
- Frequency inverter

### Features

- International standard assembly
- Lower Forward voltage
- Insulation voltage 2500V



### Module Type

TYPE	V <sub>RRM</sub>	V <sub>RSM</sub>
MD400U08I4	800V	900V
MD400U12I4	1200V	1300V
MD400U16I4	1600V	1700V

### Maximum Ratings

Symbol	Conditions	Values	Units
I <sub>F(AV)</sub>	Single phase ,half wave 180° conduction T <sub>c</sub> =100°C	400	A
I <sub>F(RSM)</sub>	Single phase ,half wave 180° conduction T <sub>c</sub> =100°C	628	A
I <sub>FSM</sub>	t=10mS T <sub>vj</sub> =45°C	17000	A
i <sup>2</sup> t	t=10mS T <sub>vj</sub> =45°C	1470000	A <sup>2</sup> s
V <sub>iso</sub>	a.c.50HZ;r.m.s.;1min	2500	V
T <sub>vj</sub>		-40 to +150	°C
T <sub>stg</sub>		-40 to +125	°C
T <sub>jm</sub>		150	°C
M <sub>t</sub>	To terminals(M10)	12	Nm
M <sub>s</sub>	To heatsink(M6)	6	Nm
Weight	Module (Approximately)	1300	g

### Thermal Characteristics

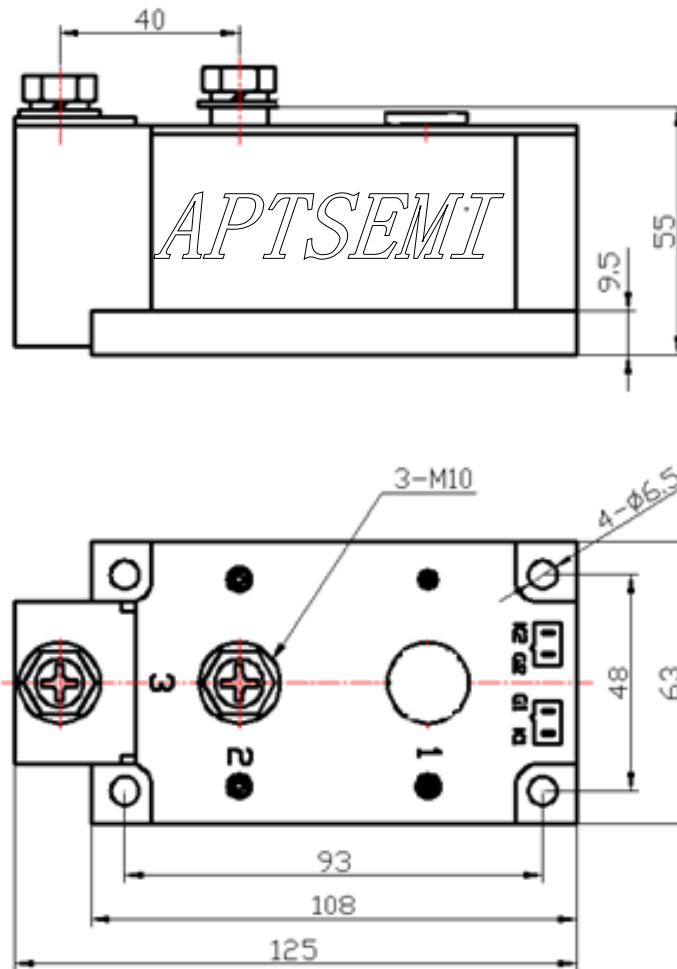
Symbol	Conditions	Values	Units
R <sub>th(j-c)</sub>	Per module	0.1	°C/W

### Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V <sub>FM</sub>	T=25°C I <sub>F</sub> =1200A	—		1.40	V
I <sub>RD</sub>	T <sub>vj</sub> =150°C V <sub>RD</sub> =V <sub>RRM</sub>	—	—	9	mA

## Package Outline Information

CASE: I4



Dimensions in mm