



Glass Passivated Rectifier Diode Modules

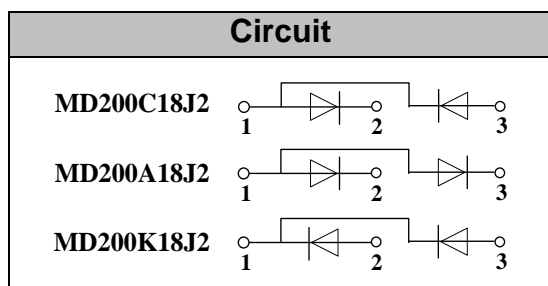
VRRM 800 to 1800V
IFAV 200 Amp

Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

Features

- Blocking voltage:800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip



Module Type

TYPE			VRRM	V _{RSM}
MD200C08J2	MD200A08J2	MD200K08J2	800V	900V
MD200C12J2	MD200A12J2	MD200K12J2	1200V	1300V
MD200C16J2	MD200A16J2	MD200K16J2	1600V	1700V
MD200C18J2	MD200A18J2	MD200K18J2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction T _c =95°C	200	A
IF(RMS)	Single phase ,half wave 180° conduction T _c =102°C	240	A
IFSM	t=10mS T _{vj} =45°C	6800	A
i ² t	t=10mS T _{vj} =45°C	231200	A ² s
V _{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T _{vj}		-40 to +150	°C
T _{stg}		-40 to +125	°C
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module	240	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.18	°C/W
R _{th(c-s)}	Module	0.05	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V _{FM}	T=25°C I _F =300A	—	1.18	1.45	V
IRD	T _{vj} =150°C V _{RD} =V _{RRM}	—	—	9	mA

Performance Curves

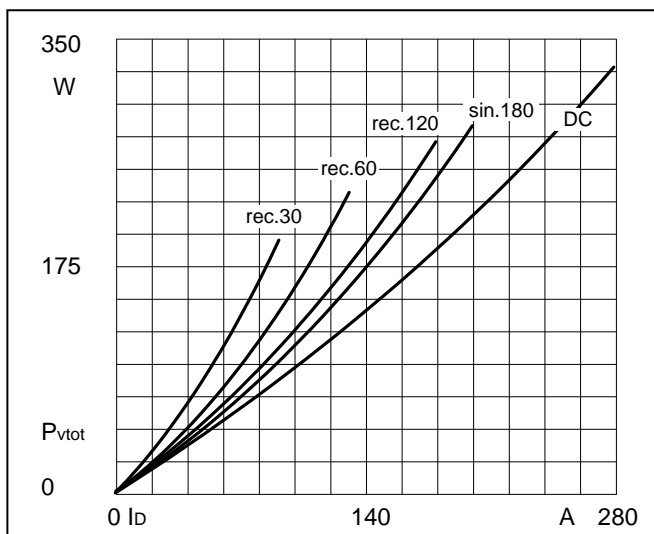


Fig1. Power dissipation

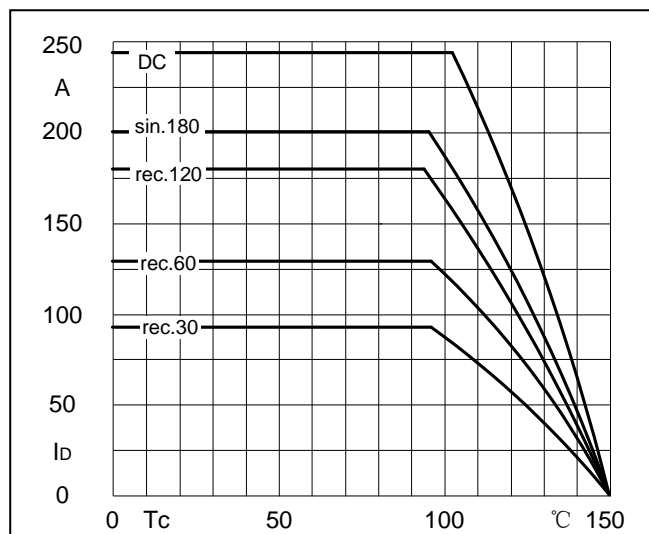


Fig2. Forward Current Derating Curve

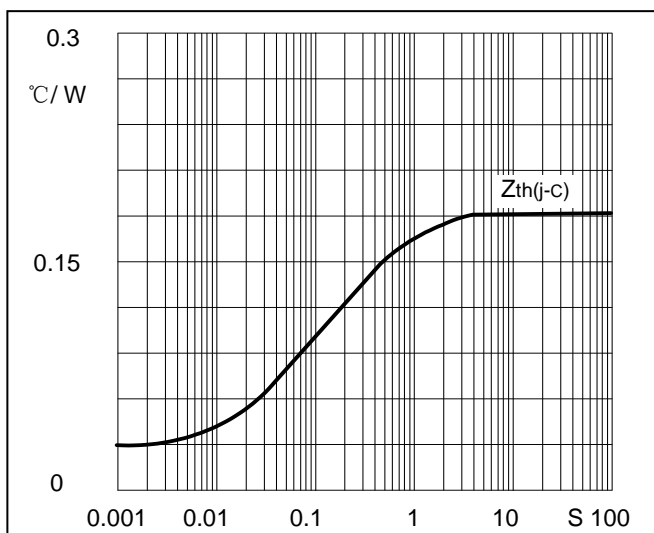


Fig3. Transient thermal impedance

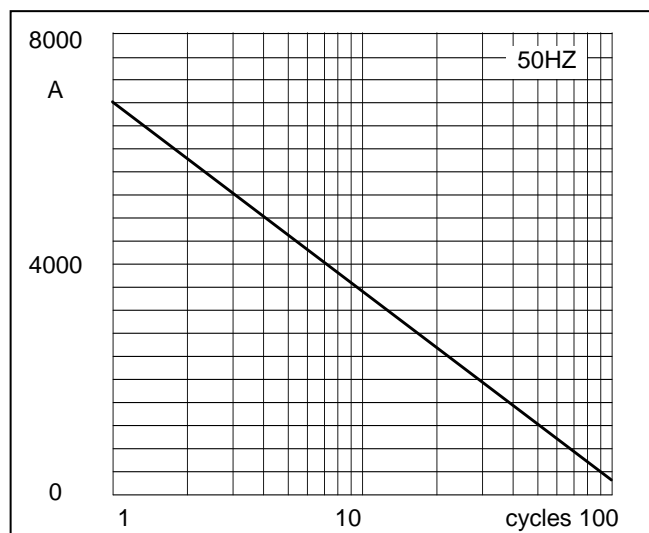


Fig4. Max Non-Repetitive Forward Surge Current

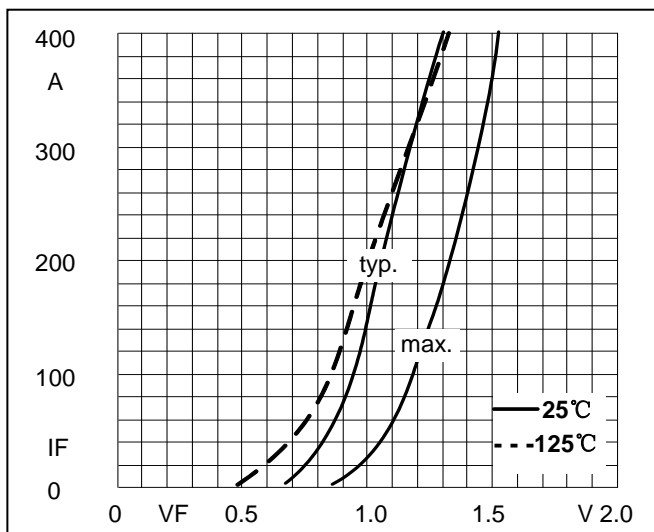
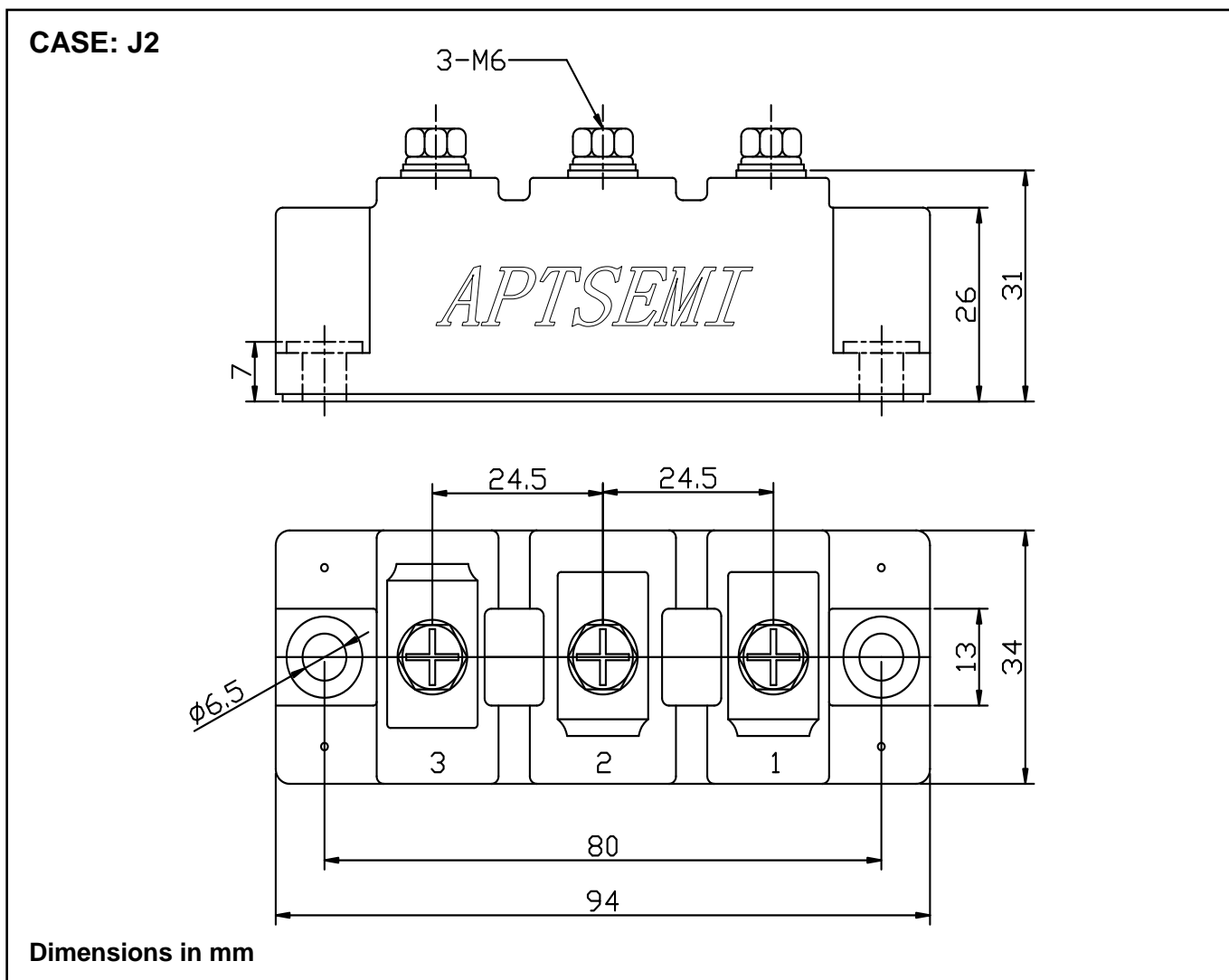


Fig5. Forward Characteristics

Package Outline Information



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