



Rectifier Diode Modules

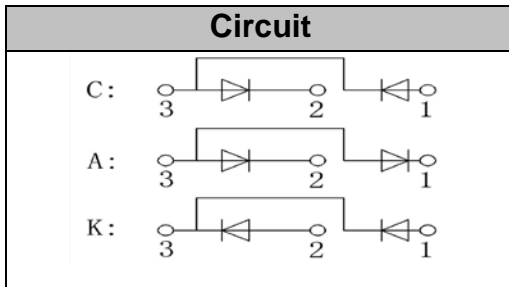
VRRM 800 to 1800V
IFAV 260 A

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 ceramic isolated metal baseplate



Module Type

TYPE			VRRM	V _{RSM}
MD260C08D3	MD260A08D3	MD260K08D3	800V	900V
MD260C12D3	MD260A12D3	MD260K12D3	1200V	1300V
MD260C16D3	MD260A16D3	MD260K16D3	1600V	1700V
MD260C18D3	MD260A18D3	MD260K18D3	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction T _c =85°C	260	A
IFSM	t=10mS T _{vj} =45°C	11000	A
i ² t	t=10mS T _{vj} =45°C	605000	A ² s
V _{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T _{vj}		-40 to 130	°C
T _{stg}		-40 to 125	°C
M _t	To terminals(M8)	9±15%	Nm
M _s	To heatsink(M6)	5±15%	Nm
Weight	Module (Approximately)	650	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.08	°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 =750A	—	—	1.25	V
I _{RD}	T _{vj} =T _{vjM} V _{RD} =V _{RRM}	—	—	15	mA



Performance Curves

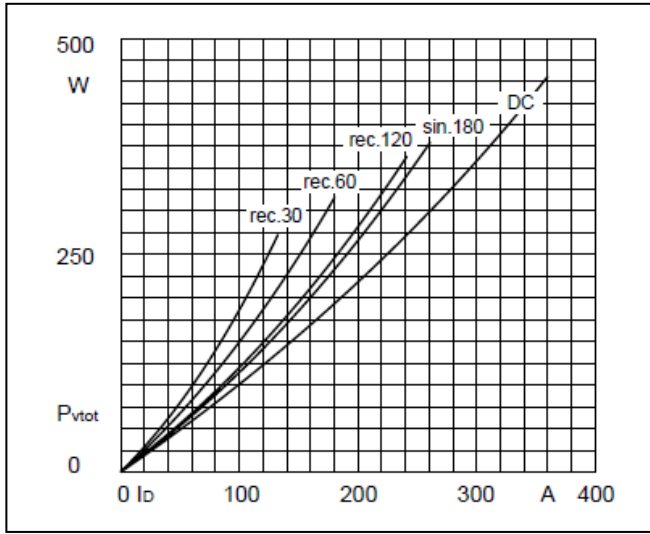


Fig1. Power dissipation

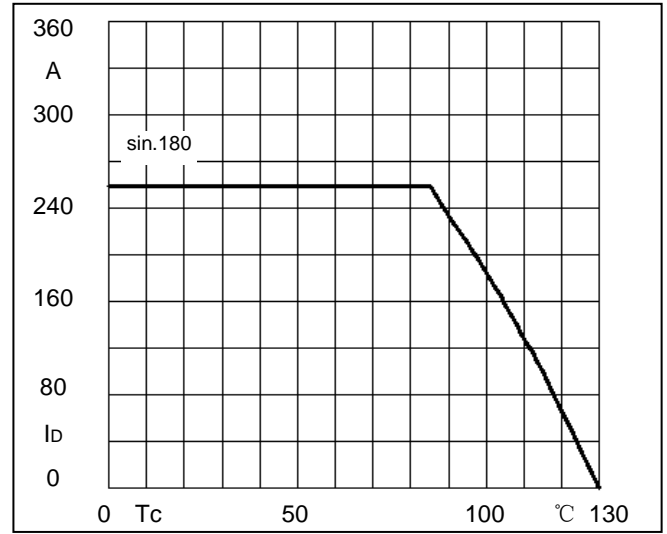


Fig2. Forward Current Derating Curve

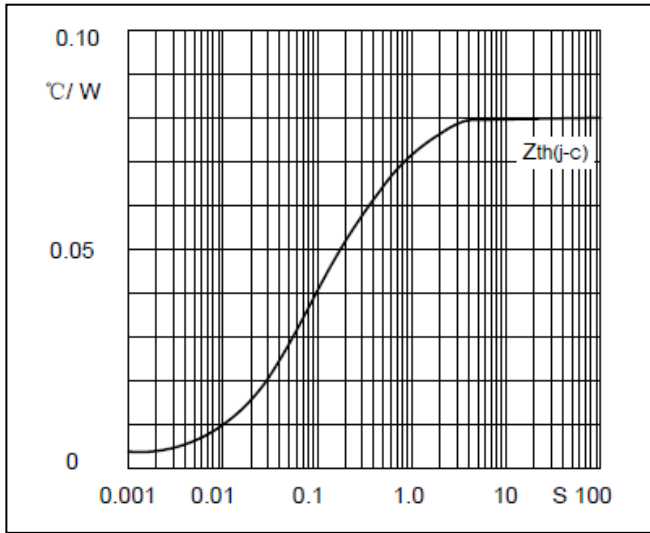


Fig3. Transient thermal impedance

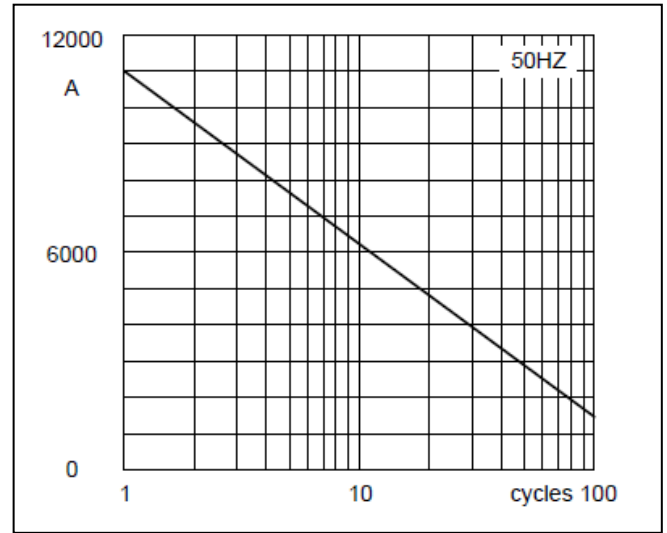


Fig4. Max Non-Repetitive Forward Surge Current

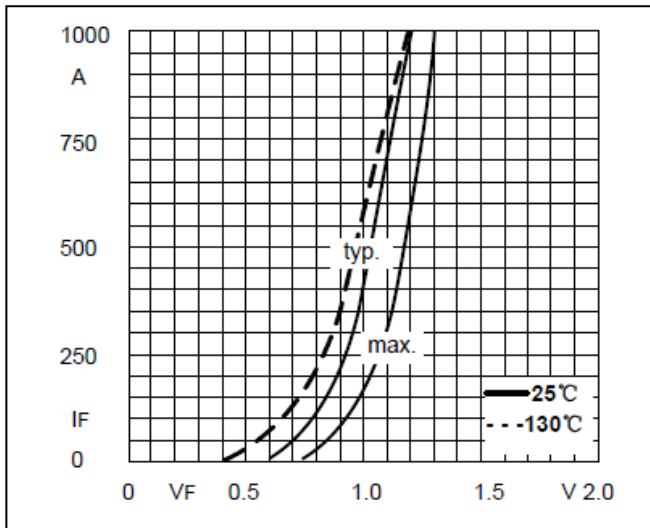


Fig5. Forward Characteristics

