



Rectifier Diode Module

VRRM 2200 to 2800V
IFAV 710A

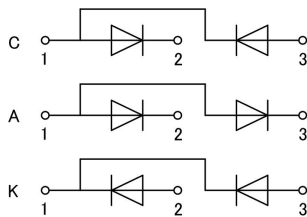
Applications

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

Features

- International standard package
- High Surge Capability
- Simple Mounting

Circuit



Blocking Characteristics

TYPE			VRRM	VRSM	Units
MD710C22D6	MD710A22D6	MD710K22D6	2200	2400	V
MD710C24D6	MD710A24D6	MD710K24D6	2400	2600	V
MD710C26D6	MD710A26D6	MD710K26D6	2600	2800	V
MD710C28D6	MD710A28D6	MD710K28D6	2800	3000	V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=85℃	710	A
IFSM	t=10ms Tvj=TvjM	19000	A
i ² t	t=10ms Tvj=TvjM	2150000	A ² s
Visol	a.c.50HZ;r.m.s.;1min,Iiso :2mA(max)	3000	V
Tvj		-40 to 150	℃
Tstg		-40 to 125	℃
Mt	To terminals(M10)	12±15%	Nm
Ms	To heatsink(M6)	6±15%	Nm
Weight	Module (Approximately)	1550	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	per diode	0.073	℃/W
Rth(c-s)	per diode	0.04	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
VFM	T=25℃ IF =1500A			1.35	V
IRRM	Tvj=TvjM V=VRRM			40	mA
VFO	Tvj=TvjM			0.75	V
rF	Tvj=TvjM			0.28	mΩ

Performance Curves

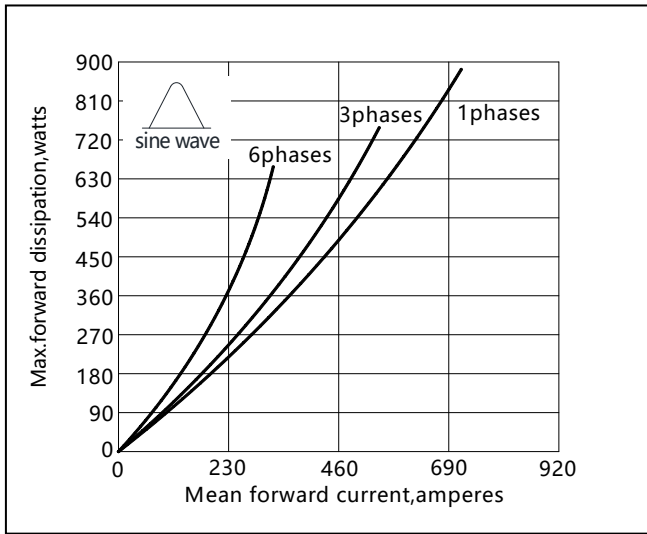


Fig1. Power dissipation

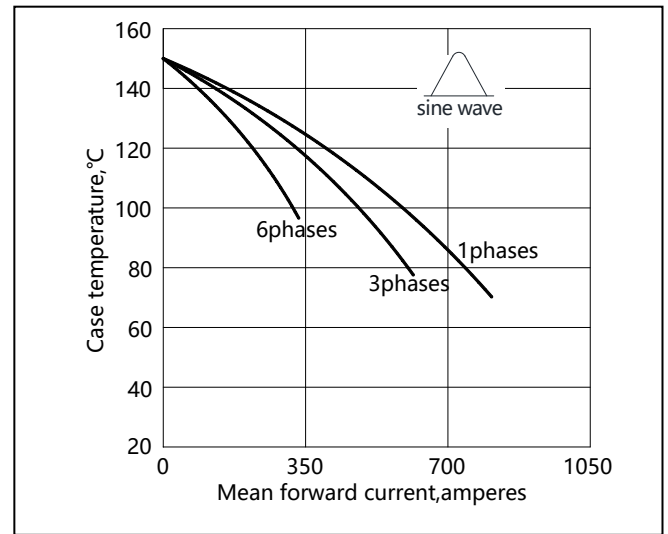


Fig2. Forward Current Derating Curve

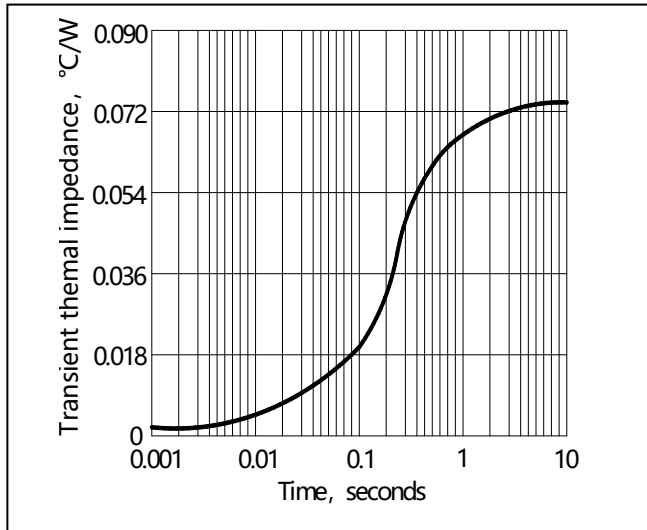


Fig3. Transient thermal impedance

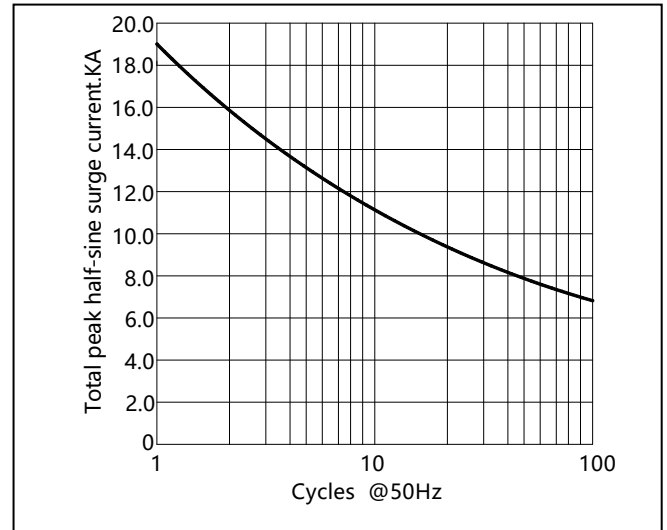


Fig4. Max Non-Repetitive Forward Surge Current

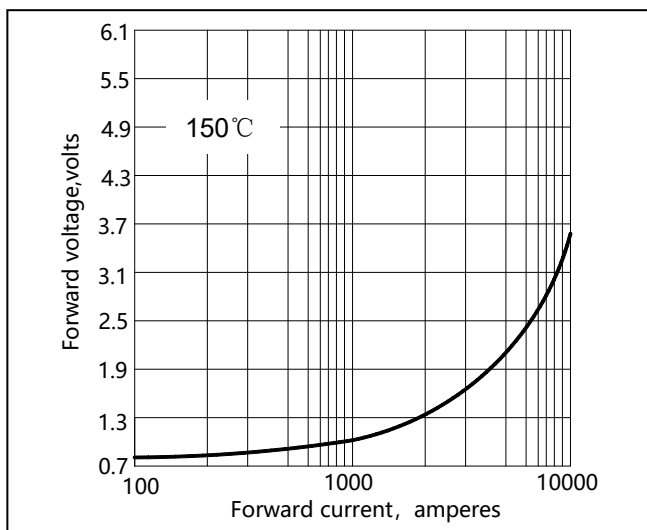


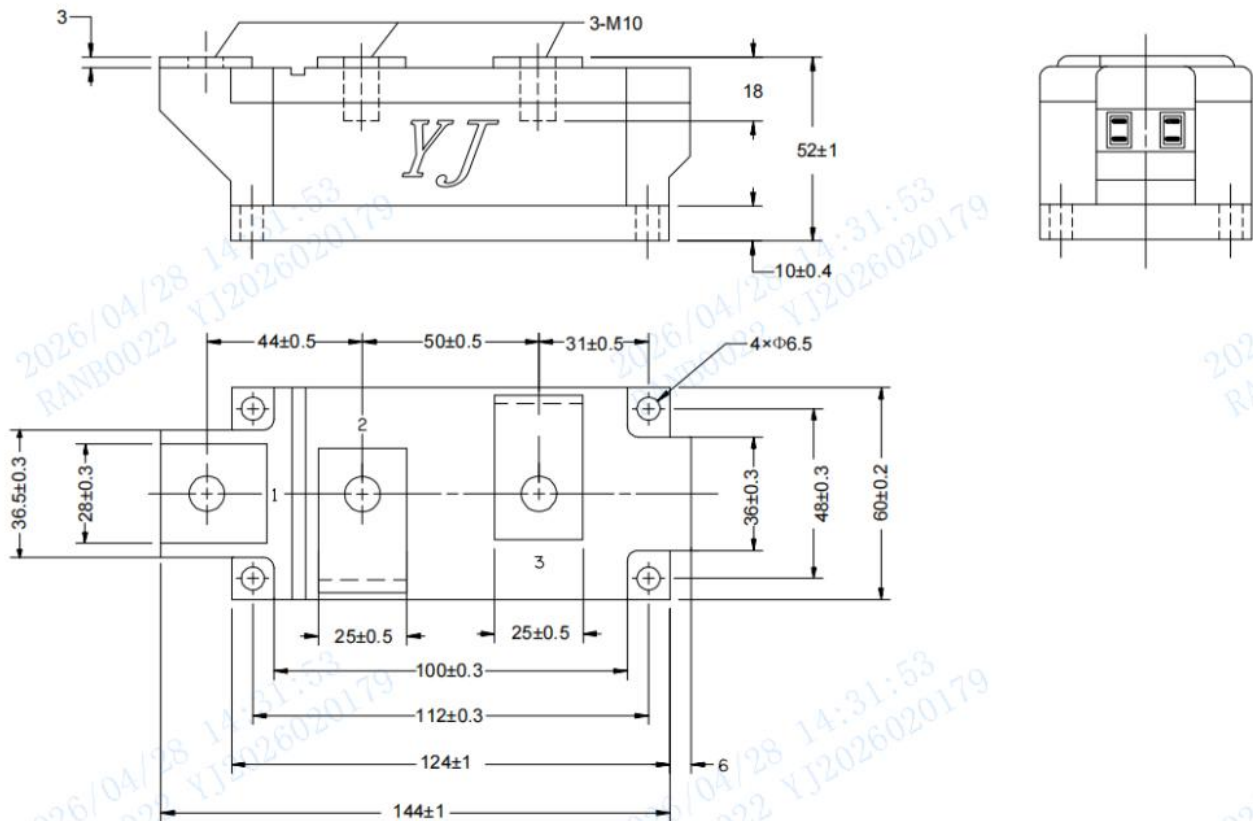
Fig5. Forward Characteristics



MD710C(A/K)-D6

Package Outline Information

CASE: D6



Dimensions in mm

Unmarked dimensional tolerance: $\pm 0.5\text{mm}$



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function, or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <http://www.21yangjie.com>, or consult your nearest Yangjie's sales office for further assistance.