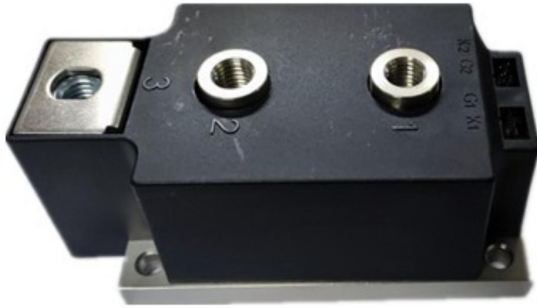




Rectifier Diode Module

VRRM 3000 to 3600V
IFAV 350A

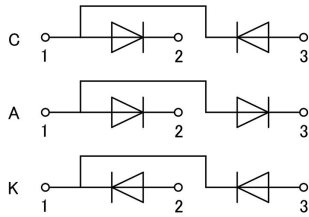
Applications

- 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
MD350C30D5	MD350A30D5	MD350K30D5	3000V	3100	V
MD350C32D5	MD350A32D5	MD350K32D5	3200V	3300	V
MD350C34D5	MD350A34D5	MD350K34D5	3400V	3500	V
MD350C36D5	MD350A36D5	MD350K36D5	3600V	3700	V

Maximum Ratings

Symbol	Conditions	Values	Units
IFAV	Single phase ,half wave 180° conduction Tc=100℃	350	A
IFSM	t=10ms Tvj=TVjM	13000	A
i ² t	t=10ms Tvj=TVjM	845000	A ² s
V _{isol}	a.c.50HZ;r.m.s.;1min,I _{iso} :2mA(max)	5600	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)	1580	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	per diode	0.084	℃/W
Rth(c-s)	per diode	0.04	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V _{FM}	T=25℃ IF =900A			1.76	V
I _{RRM}	Tvj=TVjM V=VRRM			30	mA
V _{FO}	Tvj=TVjM			0.97	V
r _F	Tvj=TVjM			0.72	mΩ

Performance Curves

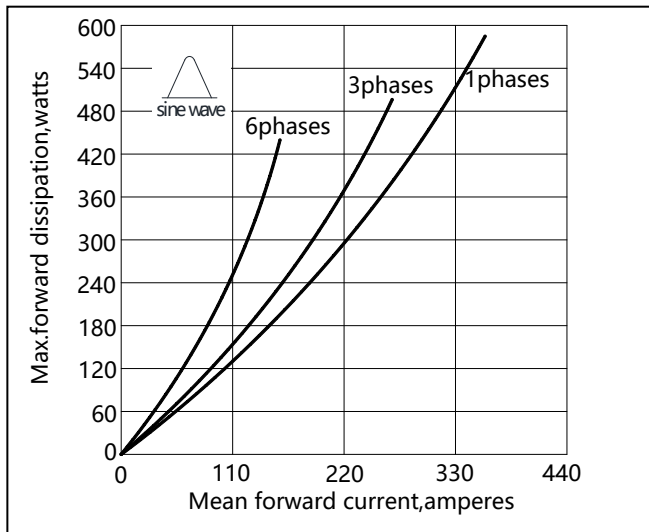


Fig1. Power dissipation

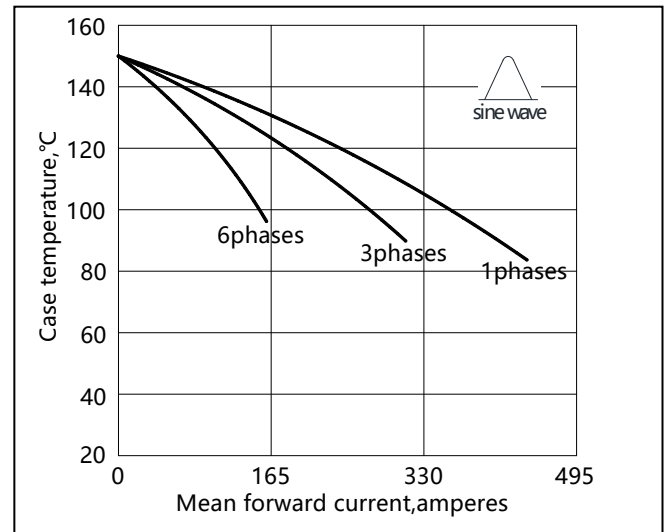


Fig2. Forward Current Derating Curve

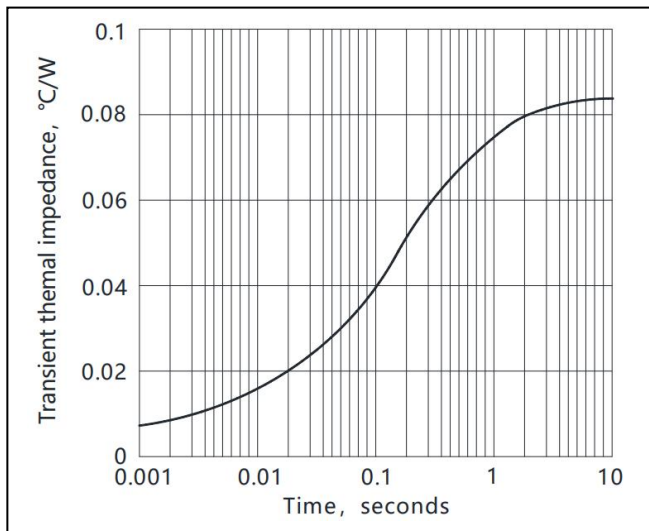


Fig3. Transient thermal impedance

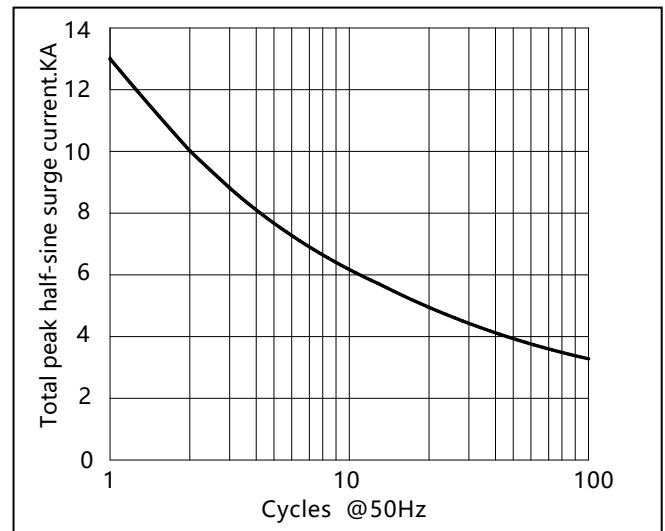


Fig4. Max Non-Repetitive Forward Surge Current

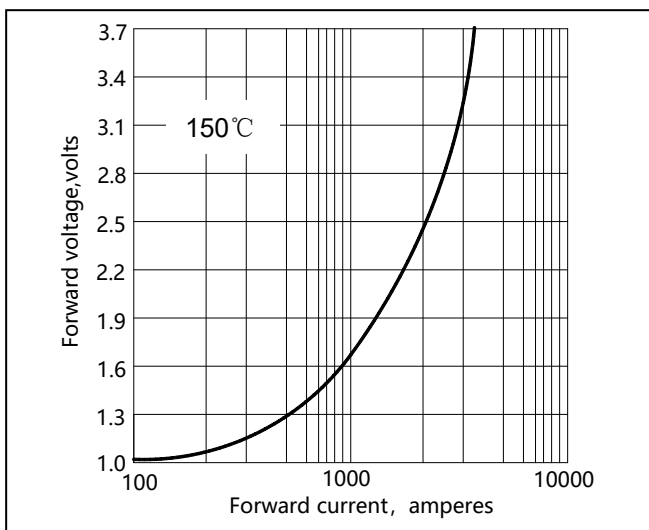
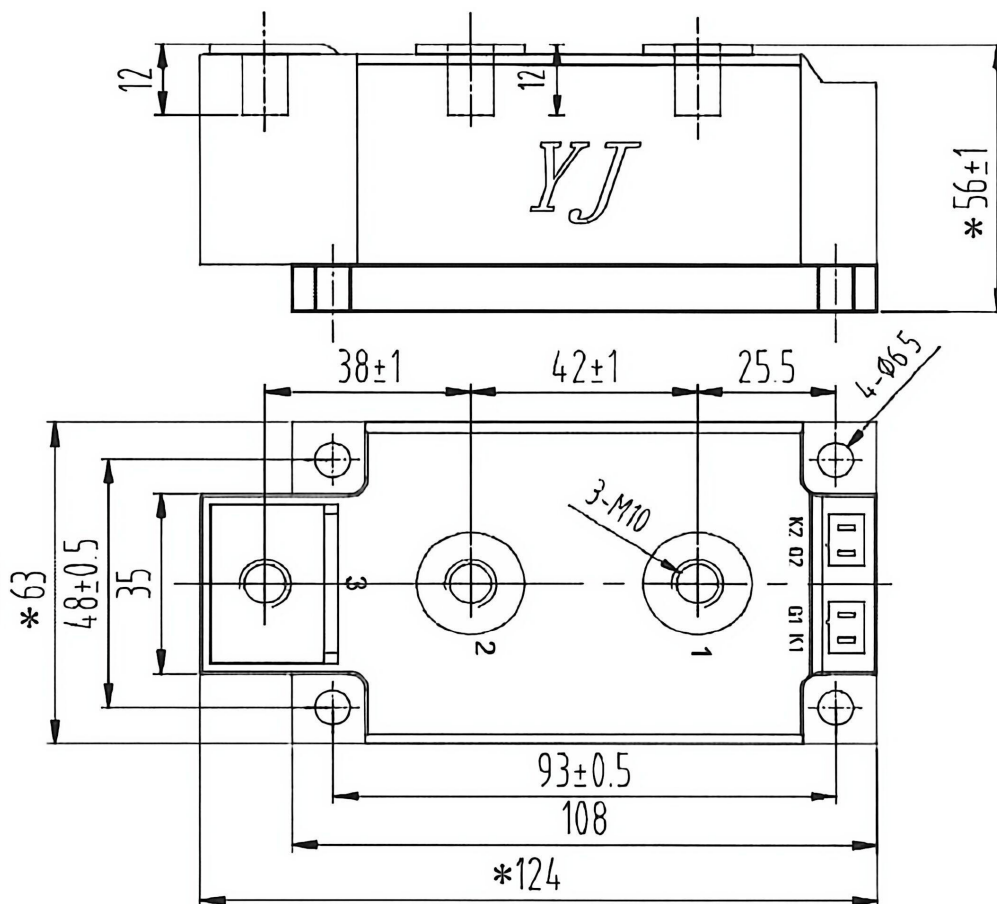


Fig5. Forward Characteristics

Package Outline Information

CASE: D5



Dimensions in mm

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



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