

**DIODE-DIODE MODULE
OF FAST-RECOVERY DIODES
M4FRD, M4FRDA
50, 100, 150, 200, 250, 300 A 12 class
DATASHEET IN BRIEF**

The diode-diode module on the basis fast-recovery diodes is intended for converting of AC into pulsating DC (as a part of single- and three-phase diode bridges).

OVERALL DRAWINGS

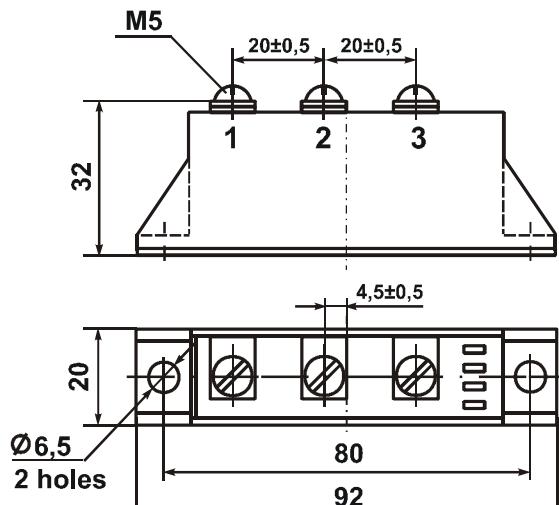


Figure 1 – Drawing of housing E1

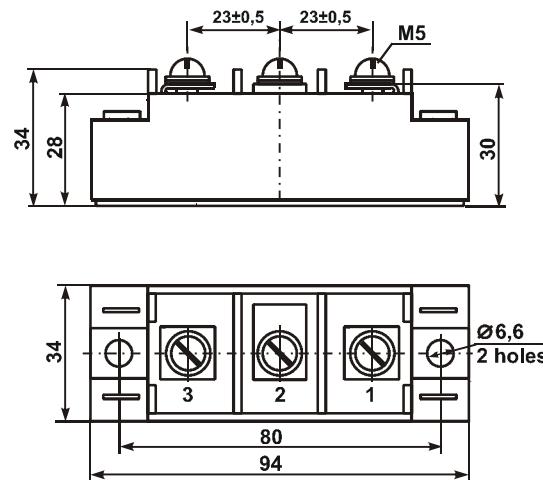


Figure 2 – Drawing of housing E2

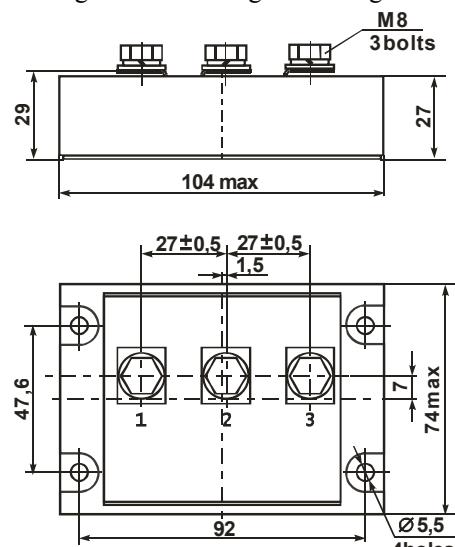


Figure 3 – Drawing of housing DM

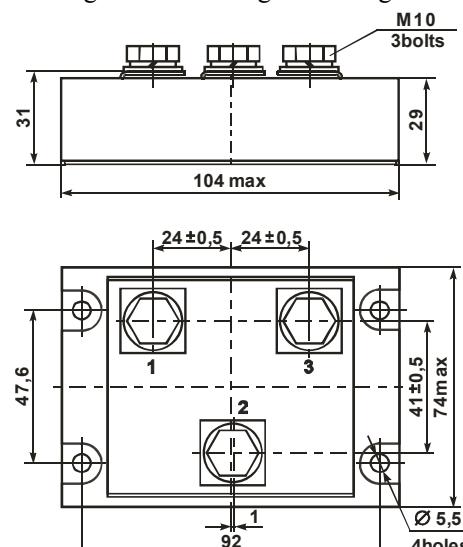


Figure 4 – Drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module	Figure
M4FRD-50-12	M4FRDA-50-12
M4FRD-100-12	M4FRDA-100-12
M4FRD-150-12	M4FRDA-150-12
M4FRD-200-12	M4FRDA-200-12
M4FRD-250-12	M4FRDA-250-12
M4FRD-300-12	M4FRDA-300-12

INTERNAL CONNECTION SCHEME

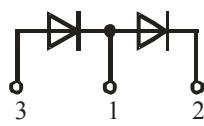


Figure 5 – Connection circuit M4.FRD

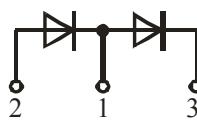


Figure 6 – Connection circuit M4.FRDA

BASIC CHARACTERISTICS

T окр = 25 °C

Product name	Pulse direct voltage, U _{FM} , V	Repetitive pulse reverse current, I _{RRM} , mA		Electric DC isolation strength between radiat- or and power outputs, U _{ISOL} ,		Reverse recovery time, trr, ns	Thermal resistance junc- tion-cooler R _{th(j-c)} , °C/W		
		max	I _O , A	max	U _{OUT} , V				
M4FRD(A)-50-12	4.1	50	1.0	1200	4000	1	200		
M4FRD(A)-100-12		100							
M4FRD(A)-150-12		150							
M4FRD(A)-200-12		200							
M4FRD(A)-250-12		250							
M4FRD(A)-300-12		300							

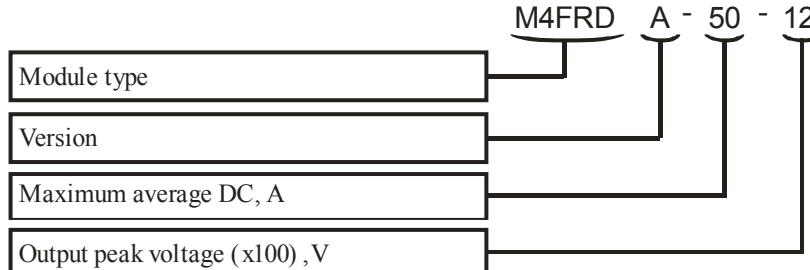
MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Non-repetitive pulse reverse voltage U _{RSM} , V	Repetitive pulse reverse diode voltage U _{RRM} , V	Average diode DC, I _{F(AV)} , A	Surge diode DC, I _{F(SM)} , A,	Critical rate of on-state current rise, (dI _F / dt) cr, A/μs	Junction temperature T _{VJ*} , °C		
	max	max	max	max		max	min	max
M4FRD(A)-50-12	1200	1200	50	500	10	150	- 40	+125
M4FRD(A)-100-12			100	1000				
M4FRD(A)-150-12			150	1500				
M4FRD(A)-200-12			200	2000				
M4FRD(A)-250-12			250	2500				
M4FRD(A)-300-12			300	4000				

* Modules are designed for operating in the equipment using coolers that support junction temperature in the prescribed ranges

Precious metals are not contained.

MODULE SYMBOL



Note – Ordering the module you should specify the housing type (E2, DM)