



**DIODE-DIODE MODULE
OF FAST-RECOVERY DIODES
M4.3FRD, M4.3FRDA
50, 100, 150, 200, 250,300 A 12 class
DATASHEET IN BRIEF**

The module consisting of two fast-recovery diodes with general anode is intended for using composed of high-powered converters.

OVERALL DRAWINGS

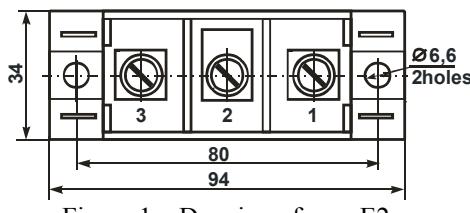
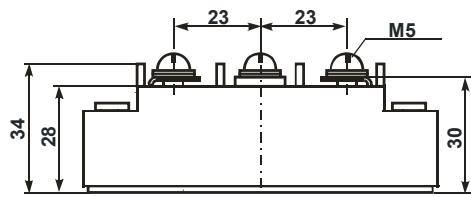


Figure 1 – Drawing of case E2

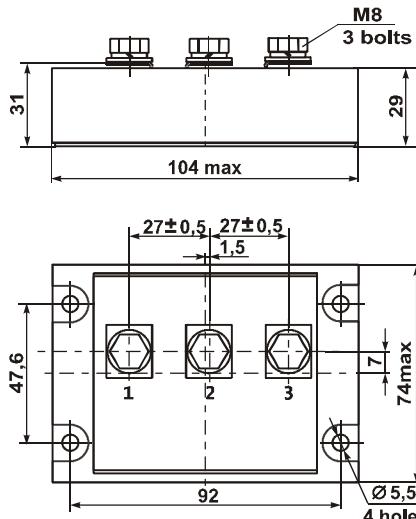


Figure 2 – Drawing of housing DM

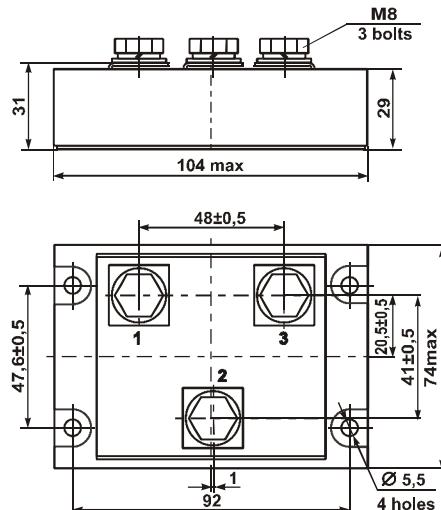


Figure 3 – Drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module	Figure
M4.3FRD-50-12	M4.3FRDA-50-12
M4.3FRD-100-12	M4.3FRDA-100-12
M4.3FRD-150-12	M4.3FRDA-150-12
M4.3FRD-200-12	M4.3FRDA-200-12
M4.3FRD-250-12	M4.3FRDA-250-12
M4.3FRD-300-12	M4.3FRDA-300-12

INTERNAL CONNECTION SCHEME

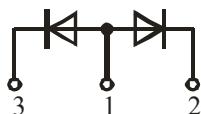


Figure 4 – Connection circuit M4.3FRD

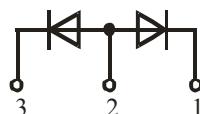


Figure 5 – Connection circuit M4.3FRDA

BASIC CHARACTERISTICS

$T = 25 \text{ }^{\circ}\text{C}$

Product name	Pulse direct voltage, U_{FM} , V	Repeated pulse reverse current, I_{RRM} , mA		Electric DC isolation strength between radiator and power outputs, U_{ISOL} ,		Reverse recovery time, trr , ns	Thermal resis- tance junction- cooler $R_{th(j-c)}$, $^{\circ}\text{C}/\text{W}$
	I_o , A	max	U_{OUT} , V	V	t , minute		
				max	min		
M4.3FRD(A)-50-12	2.1	50	1.0	4000	1	200	0.55
M4.3FRD(A)-100-12		100					0.30
M4.3FRD(A)-150-12		150					0.22
M4.3FRD(A)-200-12		200					0.19
M4.3FRD(A)-250-12		250					0.15
M4.3FRD(A)-300-12							0.11

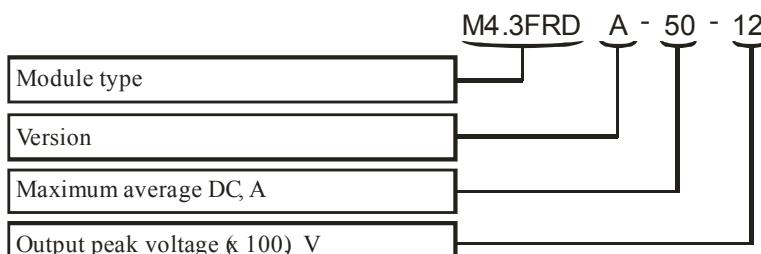
MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Non-repeated pulse reverse voltage U_{RSM} , V	Repeated pulse reverse diode voltage U_{RRM} , V	Average diode DC $I_{F(AV)}$, A	Surge diode DC $I_{F(SM)}$, A,	t , ms	Critical rate of on-state current rise, $(di_F / dt) cr$, A/ μ s	Junction temperature T_{VJ}^* , $^{\circ}\text{C}$
	max	max	max	max		max	
M4.3FRD(A)-50-12	1200	1200	50	500	10	150	- 40 +125
M4.3FRD(A)-100-12			100	1000			
M4.3FRD(A)-150-12			150	1500			
M4.3FRD(A)-200-12			200	2000			
M4.3FRD(A)-250-12			250	2500			
M4.3FRD(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)