

**DIODE-DIODE MODULES**  
**M4.3Sch, M4.3SchA**  
**40, 80, 120, 160, 200, 240 A 2class**  
**DATASHEET IN BRIEF**

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

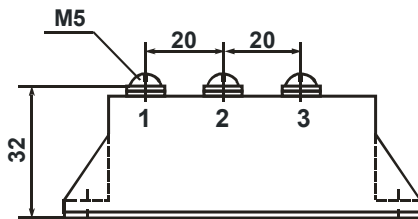


Figure 1 – Drawing of housing E1

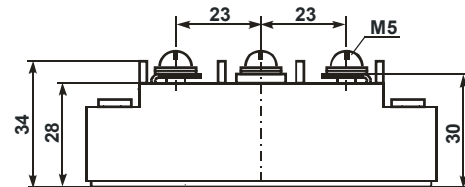


Figure 2 – Drawing of housing E2

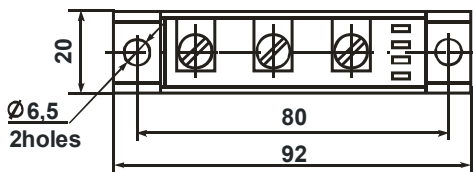


Figure 3 – Drawing of housing DM

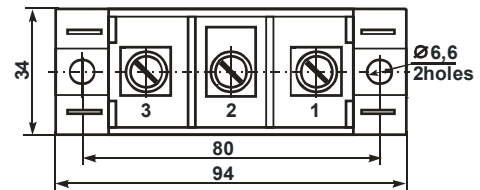


Figure 4 – Drawing of housing DM

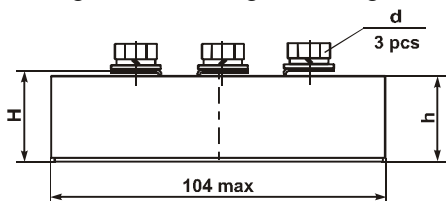


Figure 5 – Drawing of housing DM

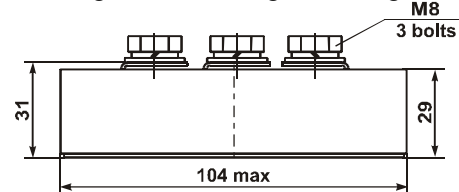


Figure 6 – Drawing of housing DM

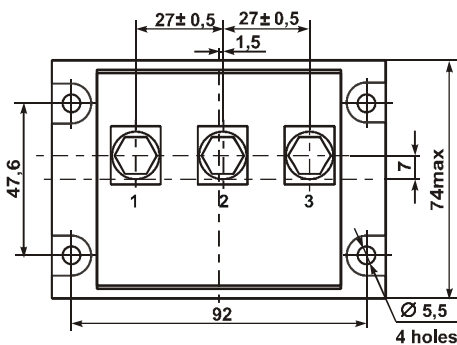


Figure 7 – Drawing of housing DM

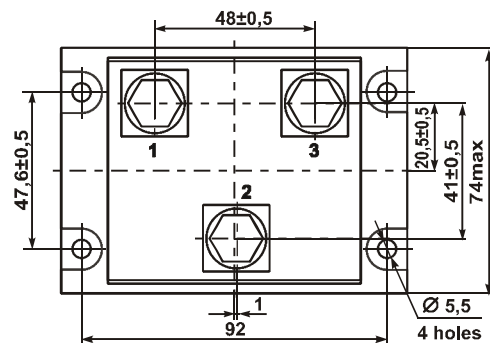


Figure 8 – Drawing of housing DM

**TABLE OF OVERALL DRAWINGS**

Module		Figure	d	h, mm	H, mm
M4.3Sch-40-2	M4.3SchA-40-2	1 or 2	-	-	-
M4.3Sch-80-2	M4.3SchA-80-2	1 or 2	-	-	-
M4.3Sch-120-2	M4.3SchA-120-2	2	-	-	-
M4.3Sch-160-2	M4.3SchA-160-2	2 or 3	Screw M6	27	29
M4.3Sch-200-2	M4.3SchA-200-2	3	Bolt M8	29	31
M4.3Sch-240-2	M4.3SchA-240-2	3	Bolt M8	29	31
M4.3Sch-320-2	M4.2SchA-320-2	4	-	-	-

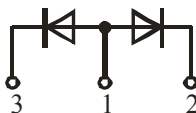
**INTERNAL CONNECTION SCHEME**


Figure 5 – Connection circuit M4.3Sch

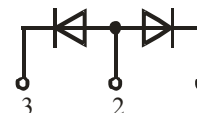


Figure 6 – Connection circuit M4.3SchA

### BASIC CHARACTERISTICS

T = 25 °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, $U_{ISOL}$ , V		Reverse recovery time, $t_{rr}$ , ns		Thermal resistance junction-cooler $R_{th(j-c)}$ , °C/W	
	max	$I_{OUT}$ , A	max	$U_{OUT}$ , V	min	t, minute	max	$I_{F(AV)}$ , A	max	
M4.3Schx-40-2	0.85	126	1.0	200	4000	1	100	40	0.80	
M4.3Schx-80-2		251						80	0.45	
M4.3Schx-120-2		377						120	0.25	
M4.3Schx-160-2		503						160	0.16	
M4.3Schx-200-2		628						200	0.13	
M4.3Schx-240-2		754						240	0.11	
M4.3Schx-320-2		1005						320	0.08	

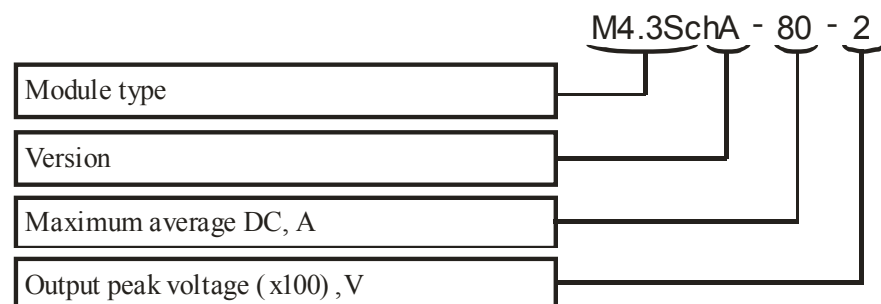
### MAXIMUM PERMISSIBLE OPERATING MODES

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	Root-mean-square diode DC $I_{FRMS}$ , A	Pulse diode DC $I_{FM}$ , A	Surge diode DC, $I_{F(SM)}$ , A		Critical rate of on-state current rise, ( $di_F / dt$ ) cr, A/ $\mu$ s	Junction temperature $T_{VJ}^*$ , °C		
						Q	t, ms		min	min	max
M4.3Schx-40-2	200	200	40	63	80	2	10	300	160	-40	+125
M4.3Schx-80-2			80	125	160			600			
M4.3Schx-120-2			120	188	240			900			
M4.3Schx-160-2			160	251	320			1200			
M4.3Schx-200-2			200	314	400			1500			
M4.3Schx-240-2			240	377	480			1800			
M4.3Schx-320-2			320	502	640			2100			

\* 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 (E1, E2, DM)