

DIODE-DIODE MODULE M4.2Sch, M4.2SchA 40, 80, 120, 160, 200, 240, 320A 1,5 class DATASHEET IN BRIEF

The single Schottky diode is intended for using composed of high-powered converters.

OVERALL DRAWINGS

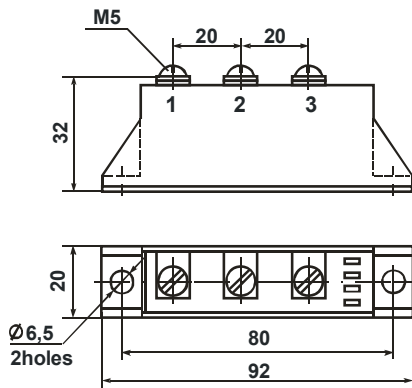


Figure 1 – Drawing of housing E1

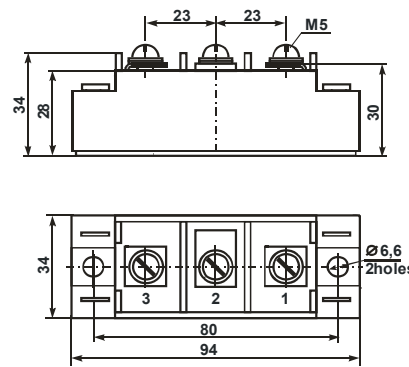


Figure 2 – Drawing of housing E2

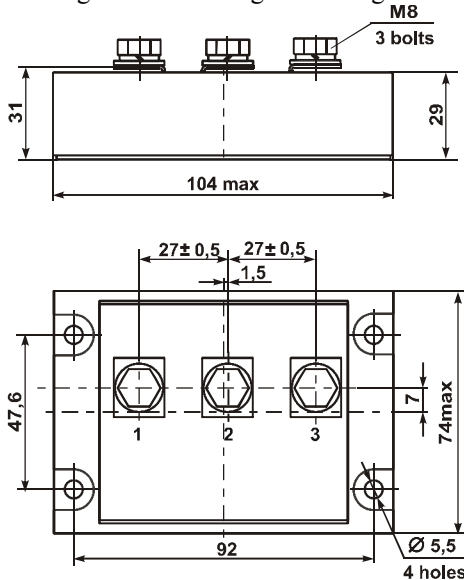


Figure 3 – Drawing of housing DM

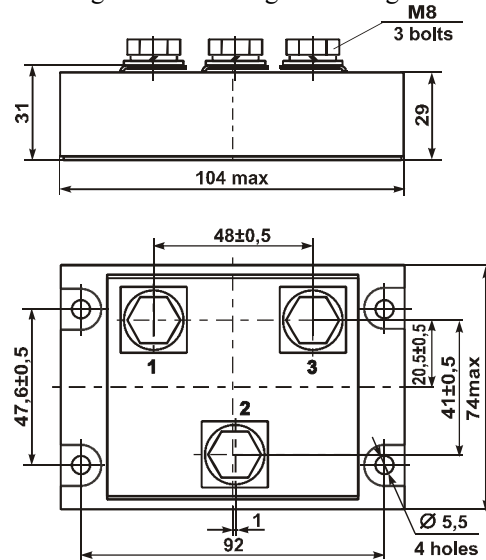


Figure 4 – Drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module		Figure
M4.2Sch-40-1,5	M4.2 Sch A-40-1,5	1 or 2
M4.2 Sch -80-1,5	M4.2 Sch A-80-1,5	1 or 2
M4.2 Sch -120-1,5	M4.2 Sch A-120-1,5	2
M4.2 Sch -160-1,5	M4.2 Sch A-160-1,5	2
M4.2 Sch -200-1,5	M4.2 Sch A-200-1,5	3
M4.2 Sch -240-1,5	M4.2 Sch A-240-1,5	3
M4.2 Sch -320-1,5	M4.2 Sch A-320-1,5	4

INTERNAL CONNECTION SCHEME

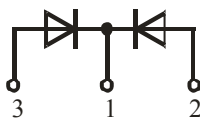


Figure 5 – Connection circuit M4.1Sch

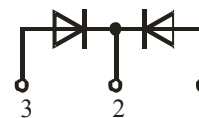


Figure 6 – Connection circuit M4.1SchA

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} ,		Reverse recovery time, trr, ns		Thermal resistance junction-cooler $R_{th(j-c)}$, °C/W	
	max	I_{OUT} , A	max	U_{OUT} , V	V min	t, minute	max	$I_{F(AV)}$, A	max	
M4.2 Schx -40-1,5	1.65	126	1.0	150	4000	1	100	40	0.80	
M4.2 Schx -80-1,5		251						80	0.50	
M4.2 Schx -120-1,5		377						120	0.30	
M4.2 Schx -160-1,5		503						160	0.25	
M4.2 Schx -200-1,5		628						200	0.22	
M4.2 Schx -240-1,5		754						240	0.16	
M4.2 Schx -320-1,5		1005						320	0.12	

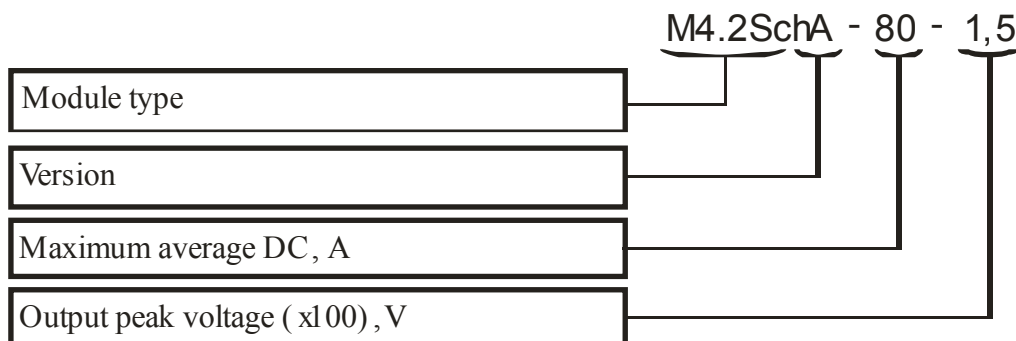
MAXIMUM PERMISSIBLE OPERATING MODES

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 open state current rise, (di_F / dt) cr, A/ μ s	Junction temperature T_{VJ}^* , °C		
						Q	t, ms		min	min	max
M4.2 Schx -40-1,5	150	150	40	63	80	2	300	10	160	-40	+125
M4.2 Schx -80-1,5			80	125	160		600				
M4.2 Schx -120-1,5			120	188	240		900				
M4.2 Schx -160-1,5			160	251	320		1200				
M4.2 Schx -200-1,5			200	314	400		1500				
M4.2 Schx -240-1,5			240	377	480		1800				
M4.2 Schx -320-1,5			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, MD)