DIODE-DIODE MODULE
M4Sch, M4SchA
40, 80, 120, 160, 200, 240, 320A 0,6 class
DATASHEET IN BRIEF

The diode-diode module on the basis of Schottky diodes are intended for converting of AC into pulsing DC (composed of single-phase and three-phase diode bridges).

OVERALL DRAWINGS

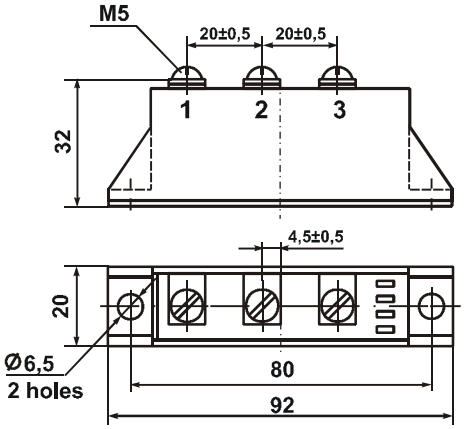


Figure 1 – Drawing of housing E1

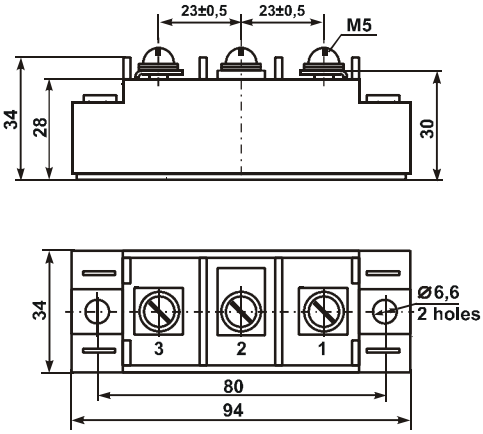


Figure 2 – Drawing of housing E2

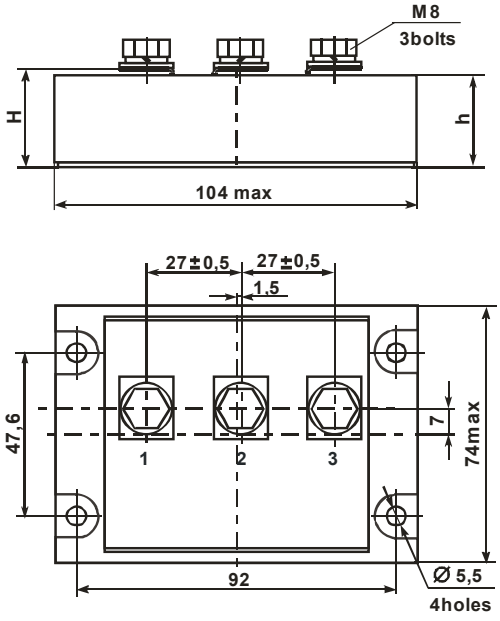


Figure 3 – Drawing of housing DM

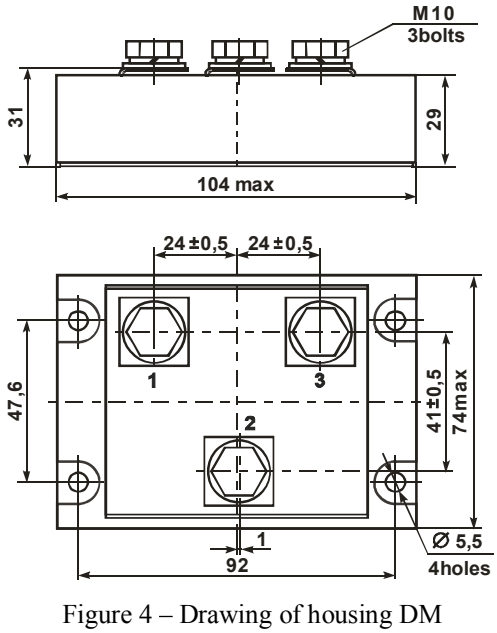


Figure 4 – Drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module	Figure	Module	Figure	h, mm	H, mm
M4Sch-40-0,6	1 or 2	M4SchA-40-0,6	2	-	-
M4Sch-80-0,6	1 or 2	M4SchA-80-0,6	2	-	-
M4Sch-120-0,6	2	M4SchA-120-0,6	2	-	-
M4Sch-160-0,6	2	M4SchA-160-0,6	2	-	-
M4Sch-200-0,6	3	M4SchA-200-0,6	3	27	29
M4Sch-240-0,6	3	M4SchA-240-0,6	3	29	31
M4Sch-320-0,6	4	M4SchA-320-0,6	4	-	-

INTERNAL CONNECTION SCHEME

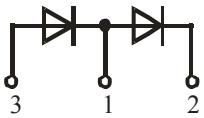


Figure 5 – Connection circuit M4Sch

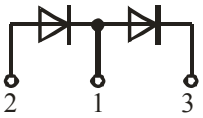


Figure 6 – Connection circuit M4SchA

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 Rth(j-c), ^{0}C/W
	max	I_{OUT}, A	max	U_{OUT}, V	B min	t, min	max	$I_{F(AV)}$, A	max
M4 Sch (A)-40-0,6	1.65	126	1.0	60	4000	1	100	40	0.8
M4 Sch (A)-80-0,6		251						80	0.5
M4 Sch (A)-120-0,6		377						120	0.3
M4 Sch (A)-160-0,6		503						160	0.25
M4 Sch (A)-200-0,6		628						200	0.22
M4 Sch (A)-240-0,6		754						240	0.16
M4 Sch (A)-320-0,6		1005						320	0.12

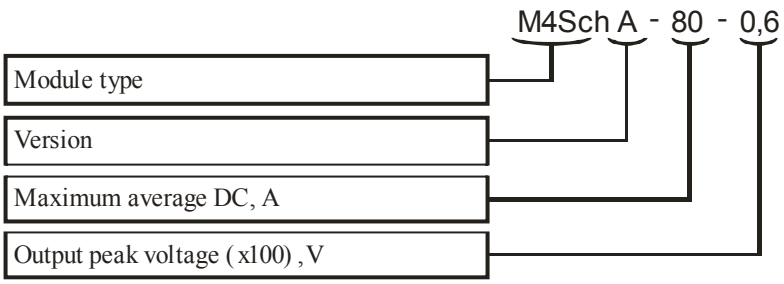
MAXIMUM PERMISSIBLE OPERATING MODES

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 Q	Surge diode DC $I_{F(SM)}$, A, t, ms	Critical rate of on-state current rise, (di_F / dt) cr, A/µs	Junction temperature T_{VJ}*, °C	
	max	max	max	max	max	max	min	min	max
M4 Sch (A)-40-0,6	60	60	40	63	80	300	160	-40	+125
M4 Sch (A)-80-0,6			80	125	160	600			
M4 Sch (A)-120-0,6			120	188	240	900			
M4 Sch (A)-160-0,6			160	251	320	1200			
M4 Sch (A)-200-0,6			200	314	400	1500			
M4 Sch (A)-240-0,6			240	377	480	1800			
M4 Sch (A)-320-0,6			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)

5 Naugorskoe shosse, Orel, 302020, Russia Tel. +7(4862) 44-03-44, Fax +7(4862) 47-02-12
E-mail: mail@electrum-av.com