DIODE-DIODE MODULES
M4Sch, M4SchA
40, 80, 120, 160, 200, 240, 320 A 2 class
DATASHEET IN BRIEF

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

OVERALL DRAWINGS

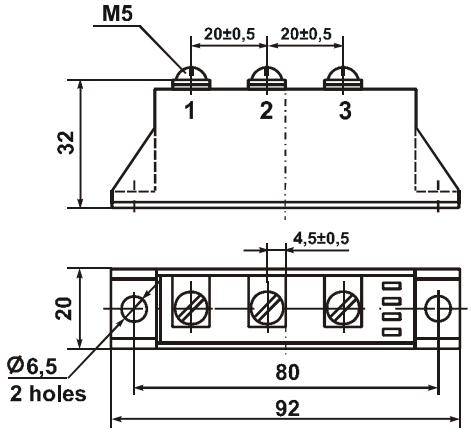


Figure 1 – Drawing of housing E1

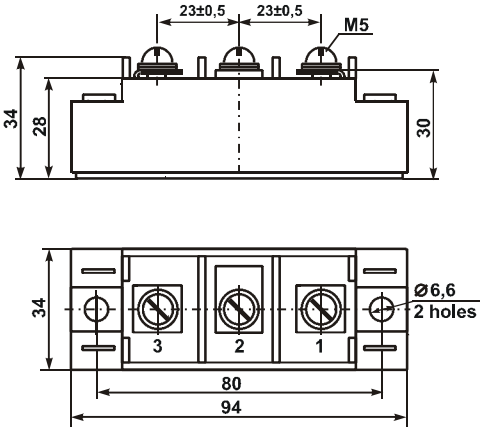


Figure 2 – Drawing of housing E2

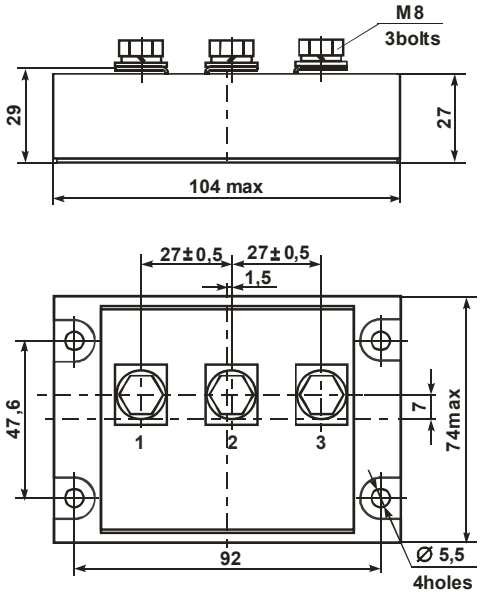


Figure 3 – Drawing of housing DM

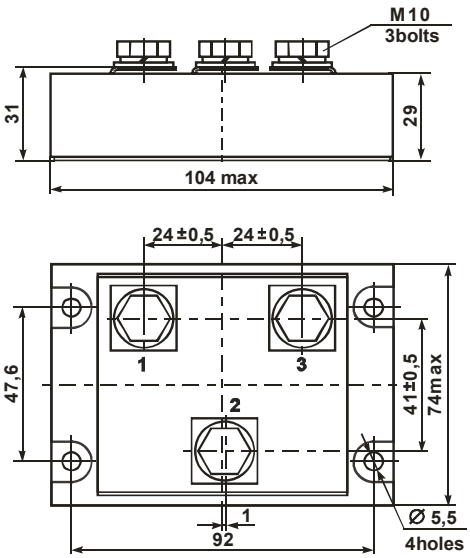


Figure 4 – Drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module	Figure	Module	Figure
M4Sch-40-2	1 or 2	M4SchA-40-2	2
M4Sch-80-2	1or 2	M4SchA-80-2	2
M4Sch-120-2	2	M4SchA-120-2	2
M4Sch-160-2	2	M4SchA-160-2	2
M4Sch-200-2	3	M4SchA-200-2	3
M4Sch-240-2	3	M4SchA-240-2	3
M4Sch-320-2	4	M4SchA-320-2	4

INTERNAL CONNECTION SCHEME

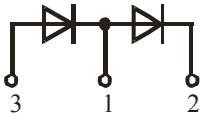


Figure 5 – Connection circuit M4Sch

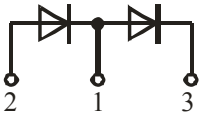


Figure 6 – Connection circuit M4SchA

BASIC CHARACTERISTICS

T = 25 °C

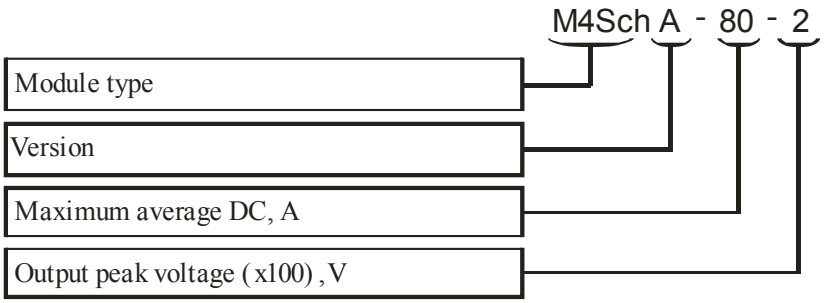
Product name	Pulse direct voltage, U_{FM}, V		Repetitive pulse reverse current, I_{RRM}, mA		Electric DC isolation strength between radiator and power outputs, U_{ISOL}, V		Reverse recovery time, trr, ns		Thermal resistance junction-cooler Rth(j-c), ^{0}C/W
	max	I_{OUT}, A	max	U_{OUT}, V	max	t, minute	max	$I_{F(AV)}$, A	max
M4Schx-40-2	1.65	126	1.0	200	4000	1	100	40	0.80
M4Schx-80-2		251						80	0.45
M4Schx-120-2		377						120	0.25
M4Schx-160-2		503						160	0.16
M4Schx-200-2		628						200	0.13
M4Schx-240-2		754						240	0.11
M4Schx-320-2		1005						320	0.08

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	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
M4Schx-40-2	200	200	40	63	80	2	300	10	160	-40	+125
M4Schx-80-2			80	125	160		600				
M4Schx-120-2			120	188	240		900				
M4Schx-160-2			160	251	320		1200				
M4Schx-200-2			200	314	400		1500				
M4Schx-240-2			240	377	480		1800				
M4Schx-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)

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