SINGLE-PHASE DIODE BRIDGE MODULE
M5Sch-40-1,5; M5Sch-80-1,5; M5Sch-120-1,5; M5Sch-160-1,5; M5Sch-200-1,5
DATASHEET IN BRIEF

Single-phase diode bridge module based on Schottky diodes is intended for rectifying (conversion of alternating voltage into pulsating direct voltage).

OVERALL DRAWINGS AND MODULE CIRCUIT

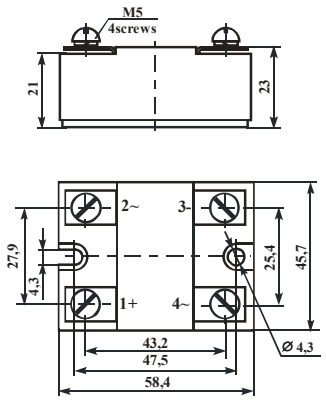


Figure 1

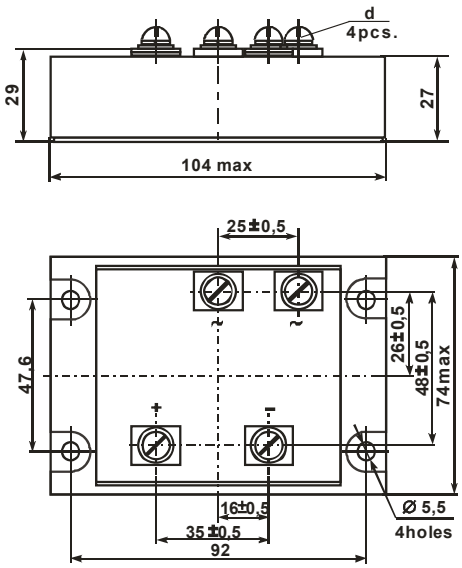


Figure 2

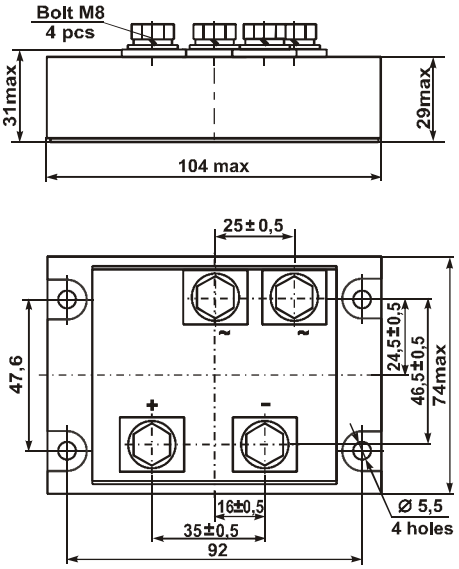
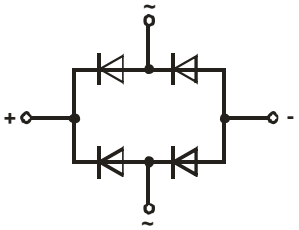


Figure 3

Symbol	Figure	d
M5Sch-40-0,6	1	-
M5Sch-80-0,6	1	-
M5Sch-120-0,6	2	Screw M5
M5Sch-160-0,6	2	Screw M6
M5Sch-200-0,6	3	-
M5Sch-300-0,6	3	-



Ta = 25 °C

BASIC CHARACTERISTICS

Product name	Reverse gate current, I_R, mA		Pulse direct diode voltage, U_{FM}, V		Diode reverse recovery time, t_{rr}, ns		Electric DC isolation strength between radiator and power outputs,		Thermal resistance junction–housing radiator for module Rth(j-h), °C/W,
	max	U_{RM}, V	max	Io, A	max	Io, A	U_{ISOL}, V min	t, minute	max
M5Sch-40-1,5	3.0	150	0.85	126	100	40	4000	1	0.80
M5Sch-80-1,5				251		80			0.50
M5Sch-120-1,5				377		120			0.30
M5Sch-160-1,5				503		160			0.25
M5Sch-200-1,5				628		200			0.15
M5Sch-300-1,5	5.0			950		300			0.10

MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Pulse reverse diode voltage		Average rectified current, Io, A	Non-repetitive surge DC, $I_{F(SM)}$, A		Junction temperature T_{VJ}*, °C	
	non-repetitive, U_{RSM}, V	repetitive, U_{RRM}, V			Ta, °C		
	min	min	max	max		min	max
M5Sch-40-1,5	150	150	40	300	125	- 40	+125
M5Sch-80-1,5			80	600			
M5Sch-120-1,5			120	900			
M5Sch-160-1,5			160	1200			
M5Sch-200-1,5			200	1400			
M5Sch-300-1,5			300	2100			
* modules are designed for operation in the equipment with use of coolers that support junction temperature in the prescribed ranges							

Precious metals are not contained

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