

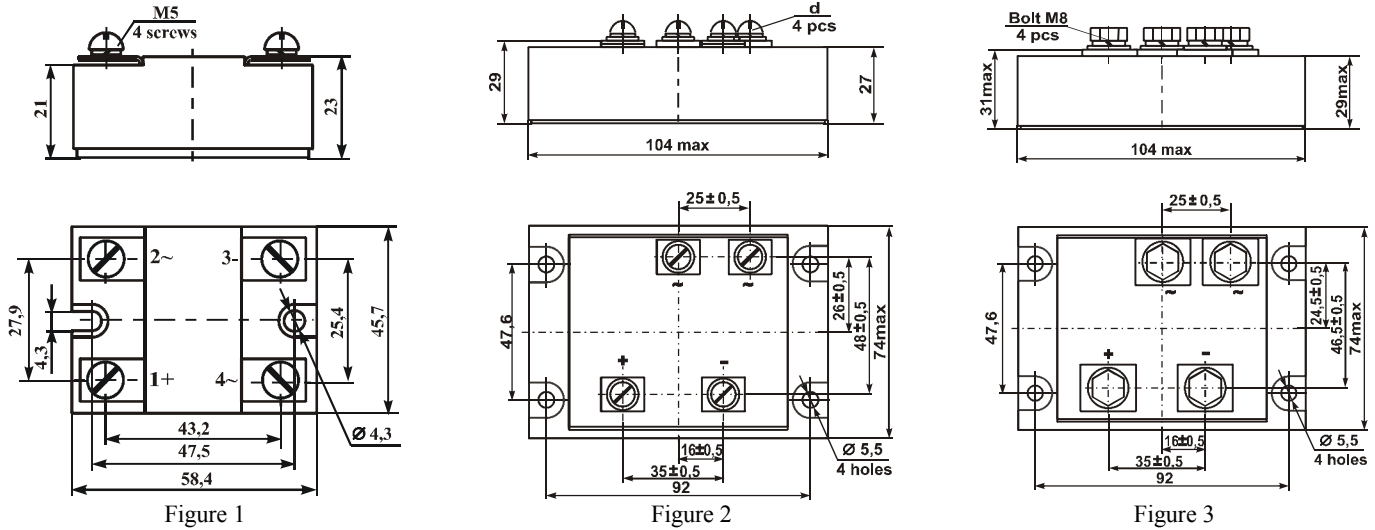
SINGLE-PHASE DIODE BRIDGE MODULE

M5Sch-40-0,6; M5 Sch -80-0,6; M5 Sch -120-0,6; M5 Sch -160-0,6; M5 Sch -200-0,6

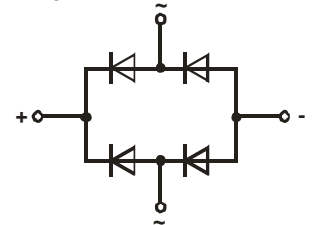
DATASHEET IN BRIEF

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

OVERALL DRAWINGS AND MODULE CIRCUIT



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	-



$T_{amb} = 25\text{ }^{\circ}\text{C}$

BASIC PARAMETERS

Product name	Pulse direct diode voltage, U_{FM} , V		Reverse gate current, I_R , mA		Reverse recovery time, t_{rr} , ns		Electric DC isolation strength between radiator and power outputs,		Thermal resistance junction-housing radiator for module $R_{th(j-c)}$, $^{\circ}\text{C/W}$, max
	max	U_{RM} , V	max	I_o , A	max	I_o , A	U_{ISOL} , V min	t minute	
M5Sch-40-0,6	3.0	60	0.85	126	100	40	4000	1	0.80
M5Sch-80-0,6				251		80			0.50
M5Sch-120-0,6				377		120			0.30
M5Sch-160-0,6				503		160			0.25
M5Sch-200-0,6				628		200			0.15
M5Sch-300-0,6	5.0			950	300			0.10	

MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Pulse reverse diode voltage		Average rectified current, I_o , A	Non repeated surge DC $I_{F(SM)}$, A		Junction temperature T_{VJ}^* , $^{\circ}\text{C}$	
	non-repetitive, U_{RSM} , V	repetitive U_{RRM} , V		T_c , $^{\circ}\text{C}$			
	min	min	max	max	min	max	
M5Sch-40-0,6	60	60	40	300	125	- 40	+125
M5Sch-80-0,6			80	600			
M5Sch-120-0,6			120	900			
M5Sch-160-0,6			160	1200			
M5Sch-200-0,6			200	1400			
M5Sch-300-0,6			300	2100			

* modules are designed for operating in the equipment with using of coolers that support junction temperature in the prescribed ranges

Precious metals are not contained