

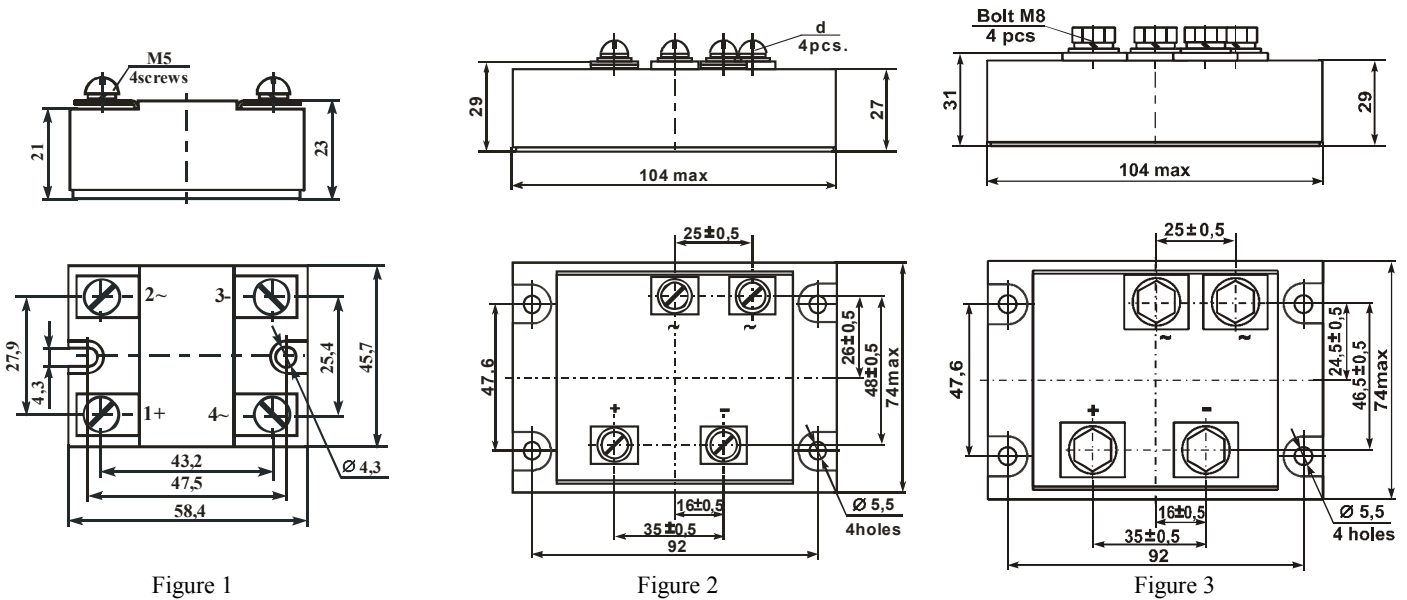
SINGLE-PHASE DIODE BRIDGE MODULE

M5Sch-40-2; M5Sch-80-2; M5Sch-120-2; M5Sch-160-2; M5Sch-200-2; M5Sch-300-2

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



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

BASIC CHARACTERISTICS

T = 25 °C

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 $R_{th(j-c)}$, °C/W,
	max	U_{RM} , V	max	I_o , A	max	I_o , A	U_{ISOL} , V min	t , minute	
M5Sch-40-2	3.0	200	0.85	126	100	40	4000	1	max
M5Sch-80-2				251		80			0.80
M5Sch-120-2				377		120			0.30
M5Sch-160-2				503		160			0.25
M5Sch-200-2				628		200			0.15
M5Sch-300-2	5.0			950	300			0.10	

MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Pulse reverse diode voltage		Average rectified module current, I_o , A	Non-repetitive surge DC, $I_{F(SM)}$, A		Junction temperature T_{vj}^* , °C	
	Non-repetitive, U_{RSM} , V	repetitive, U_{RRM} , V		T_a , °C		min	max
	min	min	max	max			
M5Sch-40-2	200	200	40	300	125	- 40	+125
M5Sch-80-2			80	600			
M5Sch-120-2			120	900			
M5Sch-160-2			160	1200			
M5Sch-200-2			200	1400			
M5Sch-300-2			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