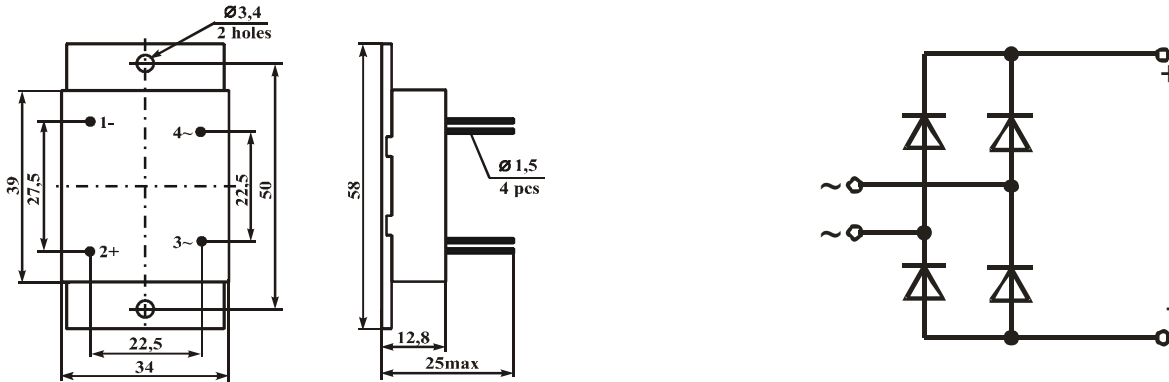


**SINGLE-PHASE DIODE BRIDGE MODULE
M5-25-12-PCB3**

A single-phase diode bridge module is intended for rectifying (conversion of alternating voltage into pulsating direct voltage).

OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT**BASIC CHARACTERISTICS** $T_{amb} = 25\text{ }^{\circ}\text{C}$

Product name		M5-25-12-PCB3
Reverse rectifier current, I_R , mA ($U_{RRM} = 1200\text{ V}$)	max	1.5
Pulse DC diode voltage, U_{FM} , V ($I_O = 25\text{ A}$)	max	1.65
DC electric isolation strength between radiator and outputs, U_{ISOL} , V ($t = 1\text{ minute}$)	min	4000
Thermal junction-radiator to diode resistance $R_{th(j-c)}$, $^{\circ}\text{C} / \text{W}$	max	1
Thermal junction-ambient $R_{th(j-a)}$, $^{\circ}\text{C} / \text{W}$	max	20

MAXIMUM ALLOWABLE OPERATING MODES

Product name		M5-25-12-PCB3	
Diode pulse reverse voltage	non-repetitive, U_{RSM} , V	min	1300
	repetitive, U_{RRM} , V	min	1200
Average rectified module current, I_O , A		max	25
Linear voltage (rms) U_{lin} , V		max	840
Surge DC, I_{FSM} , A ($T_j = 125^{\circ}\text{C}$)		max	300
Maximum switching frequency, f_{com} , kHz			3
Junction temperature, T_{VJ}^* , $^{\circ}\text{C}$		min	- 40
		max	+125
* the modules are designed to operate in equipment with using of coolers that support transition temperature without exceeding the maximum one			

Precious metals are not contained.

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