

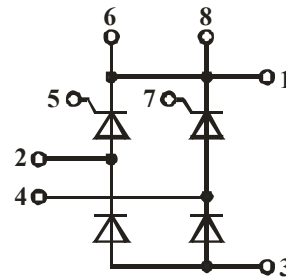
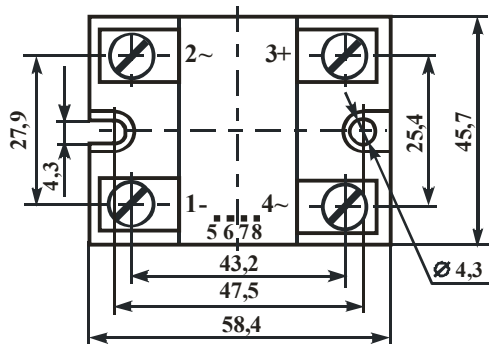
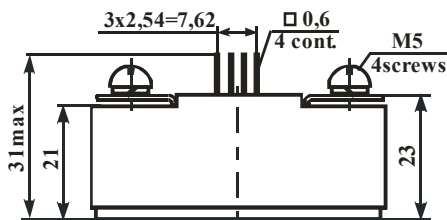
SINGLE-PHASE THYRISTOR-DIODE BRIDGE MODULE

M20-63-16

DATASHEET IN BRIEF

Single-phase thyristor-diode bridge module with thyristors control, connected to “positive” output, is intended for rectifying (for use it as a control rectifier).

OVERALL DRAWING AND ELECTRIC CIRCUIT



BASIC CHARACTERISTICS

T = 25 °C

Product name	Pulse voltage: on-state/ direct diode, U_{TM} / U_{FM}		Off-state current /valve DC, I_D / I_R , mA		Thyristor hold-on current, I_H , mA	Thyristor turn-on current, I_t , mA	Thyristor gate trigger DC voltage, U_{GT} , V	Thyristor gate trigger DC, I_{GT} , mA	Electric isolation strength at DC through radiator and outputs,		Thyristor non-trigger DC voltage, U_{GD} , V	Thermal junction-radiator resistance $R_{th(j-c)}$, °C/W	
	max	I_O , A ampl. value	max	U_O , V	max	max	max	max	U_{ISOL} , V	t , minute	max	thyristor	diode
M20-63-16	1.65	$\frac{\pi}{2} \cdot I_O$, 10 ms, 50 Hz, sinus	1.5	± 1600	200	400	3.0	200	4000	1	0.25	1.0	1.3

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Pulse non-repetitive voltage: thyristor off-state/ reverse diode, U_{DSM} / U_{RSM} , V	Pulse repetitive voltage: off-state / reverse diode, U_{DRM} / U_{RRM} , V	Average rectified current, I_O , A $T_r=75$ °C	Linear voltage (rms.), U_{lin} , V	Non-repetitive surge DC, $I_{TSM} I_{FSM}$, A	Maximum switching frequency, kHz	Critical rate of rise of reverse voltage, $(du_R / dt)_{cr}$, V/μs	DC critical rate of rise, $(di_T / dt)_{cr}$, A/μs	Junction temperature T_{VJ} *, °C	
	max	max	max	max	max	t , ms	max	max	min	max
M20-63-16	± 1600	± 1600	63	1150	300	10	1000	150	- 40	+125

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

Precious metals are not contained

5 Naugorskoe shosse, Orel, 302020, Russia Tel. +7(4862) 44-03-44, Fax +7(4862) 47-02-12

E-mail: mail@electrum-av.com