



“Electronic Components Synthesis”, Ltd.

“SYNTEC”

Russia, 302020, Orel, Naugorskoe shosse, 5.

Tel./Fax: (4862) 45-53-20, E-mail: syntec@orel.ru, www.syntec.orel.ru

Optoelectronic module 8C2.1A200П11 200V / 2,1A

ИКАШ.431156.003ТУ ГК

<p><u>Peculiarities:</u></p> <ul style="list-style-type: none"> - Control current 10 mA - 5 000 V Dielectric strength - 4-pin plastic SIP, Pin step 2,5 mm <p><u>Application:</u></p> <ul style="list-style-type: none"> - substitution of electromagnetic relay - industrial automation - power interface 	<p>Circuit diagram</p>	<p>Outline drawing</p>
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ELECTRICAL PARAMETERS $T_{amb} = 25\text{ }^{\circ}\text{C}$

Parameter name	Sign	Unit	Value			Measurement mode
			Min.	Typ.	Max.	
Input Voltage	U_i	V	2,2		3,0	$I_i=10\text{mA}$
Output Resistance in ON condition	R_{ON}	Ohm			0,18	$I_i=10\text{mA}; I_o=2,1\text{A}; t=1\text{sec.}$
Output Leakage Current in OFF condition	I_{leak}	μA		0,2	100	$U_i=0,8\text{V}; U_o=200\text{V}$
Dielectric Strength: Input-Output	$U_{diel.s}$	V	5000			$t=1\text{min.}$
Insulation Resistance	R_{ins}	Ohm		10^{11}		$U_{diel.s}=500\text{V}$
Output off-state Capacitance	C_o	pF		430		$U_o=25\text{V}; f=1\text{MHz}$
Turn-on time	t_{on}	ms		5	7	$U_o=60\text{V}; R_l=1\text{kOhm}; C_l=25\text{pF}; I_i=10\text{mA}$
Turn-off time	t_{off}	ms		1	2	

PERMISSIBLE OPERATING CONDITIONS

Condition parameters	Units	Min.	Max.	Note
Input on-state Current	mA		25	
Peak Input Current	mA		150	$t_i < 100\mu\text{s}$
Input off-state Voltage	V	-7,0	1,6	
Operating Voltage	V	-0,5	200	
I_{rms}	A		2,1	$T_{amb}=25^{\circ}\text{C}; I_i=10\text{mA}$
Temperature coefficient of max. I_{rms}	$\text{mA}/^{\circ}\text{C}$		-14	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Pulse Load Current	A		15	$T_{amb}=25^{\circ}\text{C}; I_i=10\text{mA}; t=200\text{ms}; \text{Duty Cycle}=50\%$
Temperature coefficient of max. Pulse Load Current	$\text{mA}/^{\circ}\text{C}$		-90	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Operating Temperature Range	$^{\circ}\text{C}$	-45	85	