



“Electronic Components Synthesis”, Ltd.

“SYNTEC”

Russia, 302020, Orel, Naugorskoe shosse, 5.

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

**Optoelectronic module 8C5.5A60III1 60V / 5,5A**

ИКАИИ.431156.003ТУ ГК

<p><u>Peculiarities:</u></p> <ul style="list-style-type: none"> <li>- Control current 10 mA</li> <li>- 5 000 V Dielectric strength</li> <li>- 4-pin plastic SIP, Pin step 2,5 mm</li> </ul> <p><u>Application:</u></p> <ul style="list-style-type: none"> <li>- substitution of electromagnetic relay</li> <li>- industrial automation</li> <li>- power interface</li> </ul>	<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			0,028	$I_i=10\text{mA}; I_o=5,5\text{A}; t=1\text{sec.}$
Output Leakage Current in OFF condition	$I_{leak}$	$\mu\text{A}$		0,2	100	$U_i=1,6\text{V}; U_o=60\text{V}$
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		920		$U_o=25\text{V}; f=1\text{MHz}$
Turn-on time	$t_{on}$	ms		5	7	$U_o=60\text{V}; R_l=1\text{kOhm}; C_l=25\text{pF};$
Turn-off time	$t_{off}$	ms		1	2	$I_i=10\text{mA}$

**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	60	
$I_{rms}$	A		5,5	$T_{amb}=25^{\circ}\text{C}; I_i=10\text{mA}$
Temperature coefficient of max. $I_{rms}$	$\text{mA}/^{\circ}\text{C}$		-36	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Pulse Load Current	A		38	$T_{amb}=25^{\circ}\text{C}; I_i=10\text{mA}; t=200\text{ms}; \text{Duty Cycle}=50\%$
Temperature coefficient of max. Pulse Load Current	$\text{mA}/^{\circ}\text{C}$		-240	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Operating Temperature Range	$^{\circ}\text{C}$	-45	85	