



“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 8C1.2B600П11 600V / 1,2A

ИКАШ.431156.004ТУ ГК

<p><u>Peculiarities:</u></p> <ul style="list-style-type: none"> - Operating Voltage ~260 V - Switching-on at zero crossing - 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"> - industrial automation - power interface 	<p style="text-align: center;">Circuit diagram</p>	<p style="text-align: center;">Outline drawing</p>
---	--	--

ELECTRICAL PARAMETERS $T_{amb} = 25\text{ }^{\circ}\text{C}$

Parameter name	Sign	Unit	Value			Measurement mode
			Min.	Typ.	Max.	
Input Voltage	U_i	V	1,1		1,5	$I_i=10\text{mA}$
On-state Voltage	R_{on}	V		1,1	1,5	$I_i=10\text{mA}; I_o=1,2\text{A}; t=1\text{sec.}$
Output Leakage Current in OFF condition	I_{leak}	μA		0,1	100	$U_i=0,8\text{V}; U_o=\pm 600\text{V}$
Inhibit Voltage	U_{inh}	V		5	20	$I_i=10\text{mA}$
Output Leakage Current in inhibited state	$I_{leak.inh}$	μA			500	$I_i=10\text{mA}$
Dielectric Strength: Input-Output	$U_{diel.s}$	V	5000			$t=1\text{min.}$
Insulation Resistance	R_{ins}	Ohm		10^{11}		$U_{diel.s}=500\text{V}$
Input-Output Capacitance	C_{i-o}	pF		3		
Turn-on time	t_{on}	ms		5		

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	-3,5	0,8	
Operating Voltage	V	20	600	
I_{rms}	A	0,05	1,2	$-45^{\circ}\text{C} \leq T_{amb} \leq 25^{\circ}\text{C}; I_i=10\text{mA}$
Temperature coefficient of max. I_{rms}	$\text{mA}/^{\circ}\text{C}$		-12	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Pulse Load Current	A		8	$T_{amb}=25^{\circ}\text{C}; I_i=10\text{mA}; t=100\text{ms}; \text{Duty Cycle}=50\%$
Temperature coefficient of max. Pulse Load Current	$\text{mA}/^{\circ}\text{C}$		-50	$25^{\circ}\text{C} < T_{amb} \leq 85^{\circ}\text{C}; I_i=10\text{mA}$
Critical Rate of Rise of Output off-state Voltage	$\text{V}/\mu\text{s}$		50	
Operating Temperature Range	$^{\circ}\text{C}$	-45	85	