

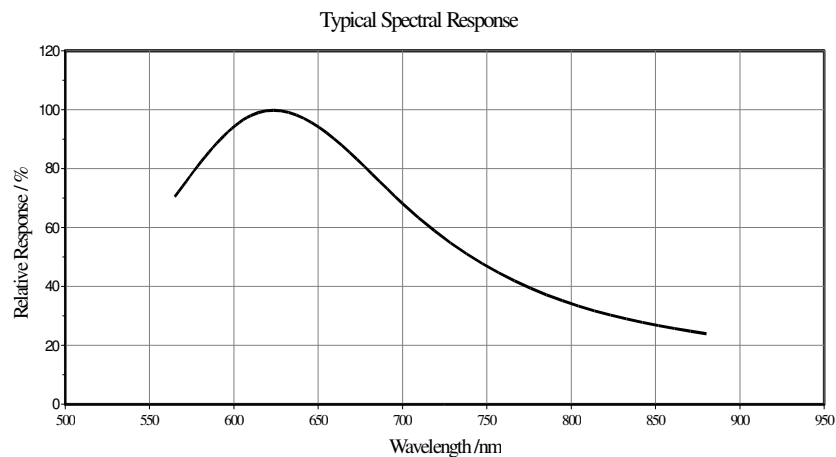
## PHOTO TRANSISTORS

For weak, slowly changing signals highly sensitive photo transistors with the following parameters are available.

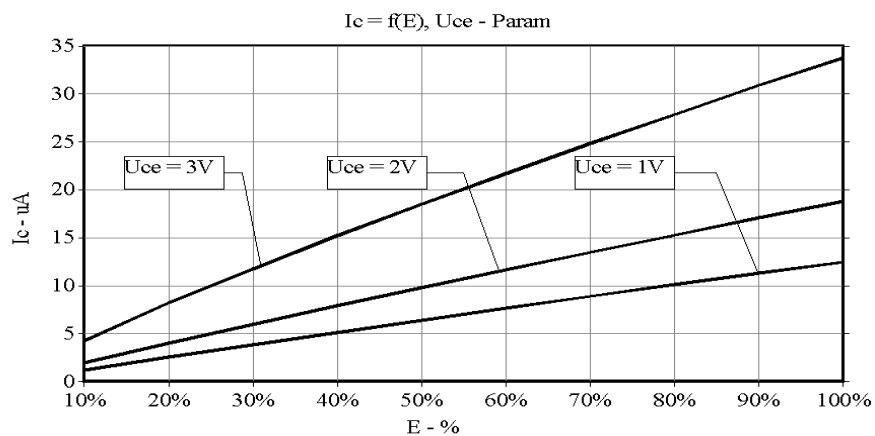
### Specifications of the U6LS21

	Conditions	typ.	Unit
Collector emitter breakdown voltage $V_{CE0}$	$I_c = 10\mu A$	3.5	V
Emitter collector breakdown voltage $V_{ECO}$	$I_c = 10\mu A$	3	V
Sensitivity S	$\lambda = 610nm, V_{CE} = 1V$	540	A/W
Cut-off frequency $f_G$	$I_G = I_{Gmax} - 3dB$	2.4	kHz
Rise time	$V_c = 1V, V_{out} = 0.5V$	0.5	ms
Fall time	$V_c = 1V, V_{out} = 0.5V$	0.25	ms

The spectral sensitivity of a typical photo transistor is shown in the following diagram:



Spectral sensitivity of the U6LS21



Collector current as a function of the irradiance ( $E = 100\% = 0.12mW/cm^2$ ) at 890nm