

Electro Optical Components, Inc.

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403 Toll Free: 855-EOC-6300



www.eoc-inc.com | info@eoc-inc.com

SiC - Photodiode

JEC 1/0,1 I-DE



preliminary datasheet

- **characteristics**: ♦ special SiC-detector with two separated channels for optimal adoption of responsivity to erythema characteristic CIE-IEC
 - integrated special filters for both channels
 - best suited for measurement of different sources of radiation, because of broadband adoption of responsivity
 - ♦ hermetically sealed TO5-package
 - ♦ integrated diffusor, cos-response
 - assembly isolated to package
 - components are in conformity with RoHS and WEEE

applications:

- measurement of erythema effective part of sunlight (UVI-measurement with high exactness)
- ♦ dosimeter for solarium
- medical diagnosis

absolut maximum ratings:

♦	max. reverse voltage	20 V
•	operating temperature range	-25 °C+70 °C
٠	storage temperature range	-40 °C +100 °C

storage temperature range -40 °C...+100 °C 260 °C welding temperature (3s)

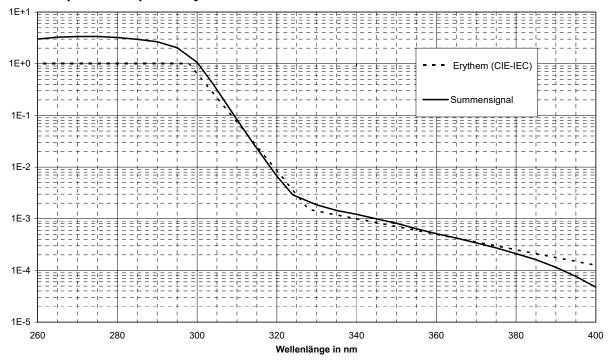
technical data:

common test conditions, as not otherwise specified: $T_A = 25$ °C, $V_R = 0$ V

parameter	test condition	channel I	channel II	unit
active area of detector		0,965	0,054	mm²
effective area of diffusor		13,85 (Ø 4,2)		mm²
max. spectr. responsivity *)	$S = S_{max}$	1,5	0,03	mA/W
abs. spectr. responsivity *)	$\lambda = 313 \text{ nm}$	0,02		mA/W
abs. spectr. responsivity *)	$\lambda = 365 \text{ nm}$		0,01	mA/W
photocurrent at sunlight		0,2	1	nA/UVI
darkcurrent	$V_R = 1 V$	10	10	fA
junction capacity		195	21	рF

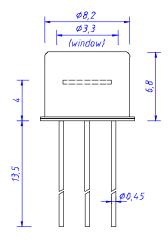
^{*)} based on effective area of diffusor

relative spectral responsivity

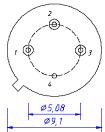


package dimension

application example



place for application circuit and application hints



pin configuration:

- 1 cathode/canal I
- 2 cathode/canal II
- 3 common anode
- 4 package