SiC UV Photodiodes
Selection Guide

Boston Electronics

Nomenclature

The UV photodiodes follow the below nomenclature. All part numbers start with SG01 indicating a sglux SiC UV photodiode. The following table shows the selection opportunities:

SG01			
S, M, D, L, F, XL —	**nothing, A, B, C or E**	**18, 18ISO90, 18S, 5, 18ISO90S, 5ISO90**	**nothing, Lens, MEGA, GIGA, DIFFUSOR**
Chip area	**Spectral response**	**Housing**	**Special**
S 0.06 mm²	**nothing = broad band UV** λ_{max} = 280 nm $\lambda_{s10\%}$ = 221 nm … 358 nm	**18** 2-pin TO18 housing, h = 5.2 mm, 1 pin isolated, 1 pin grounded	**Lens** with concentrating lens, TO5 only
M 0.20 mm²	**A = UVA** λ_{max} = 331 nm $\lambda_{s10\%}$ = 309 nm … 367 nm	**18ISO90** 3-pin TO18 housing, h = 5.2 mm, 2 pins isolated, 1 pin grounded	**MEGA** with altenuator up to 0.5 W/cm²
D 0.50 mm²	**B = UVB** s_{max} = 280 nm $\lambda_{s10\%}$ = 231 nm … 309 nm	**18S** 2-pin TO18 housing, h = 3.7 mm, 1 pin isolated, 1 pin grounded	**GIGA** with altenuator up to 7 W/cm²
L 1.00 mm²		**5** 2-pin TO5 housing, h = 4.3 mm for broadband; h = 6.7 mm for filtered UVA, UVB, UVC, UVI	
F 1.82 mm²	**C = UVC** s_{max} = 275 nm $\lambda_{s10\%}$ = 225 nm … 287 nm	**18ISO90S** 3-pin TO18 housing, h = 3.7 mm, 2 pins isolated, 1 pin grounded	**DIFFUSOR** with anorganic diffusor for cosine correction
XL 7.60 mm²	**E = UV-Index** spectral response according to CIE087	**5ISO90** 3-pin TO5 housing, h = 4.2 mm, 2 pins isolated, 1 pin grounded	

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