Standard specifications of 100 mm β-Ga₂O₃ epitaxial wafer (by HVPE)

Epitaxial layer

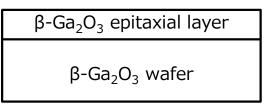
Items	Specifications
Dopant	Si (n-type)
Doping concentration *A value can be selected in increments of 1×10 ¹⁶ cm ⁻³ .	Specify a value in the range between 1×10^{16} and 9×10^{16} cm ⁻³
Thickness *A value can be selected in increments 1 µm.	Specify a value in the range between 5 and 10 µm

Epi-Wafer

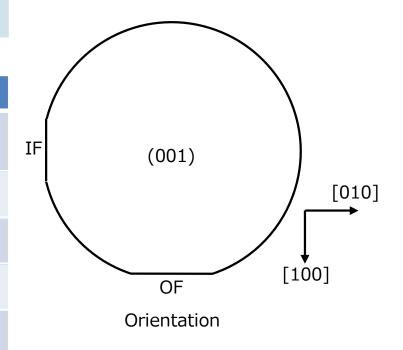
Items	Specifications
Substrate dopant	Sn (n-type)
Substrate resistivity	$0.007 \sim 0.042 \Omega \cdot \text{cm}$
Surface orientation	(001)
Backside finish	Grinding
Wafer thickness	620 µm
XRD FWHM *Not included in a delivery inspection sheet	≦350 arcsec

Remarks

- 1 There are cases in which the other side of OF is chipped (a maximum of around IF width).
- 2 These products must be used for research and development purposes only.
- 3 The substrates must not be used as a seed crystal.
- 4 The specifications are subject to change without notice.



Cross section of β -Ga₂O₃ epitaxial wafer





Novel Crystal Technology, Inc.

Standard specifications of 2 inch β-Ga₂O₃ epitaxial wafer (by HVPE)

Epitaxial layer

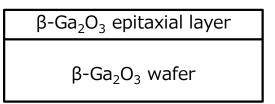
Items	Specifications
Dopant	Si (n-type)
Doping concentration *A value can be selected in increments of 1×10 ¹⁶ cm ⁻³ .	Specify a value in the range between 1×10^{16} and 9×10^{16} cm ⁻³
Thickness *A value can be selected in increments 1 µm.	Specify a value in the range between 5 and 10 µm

Epi-Wafer

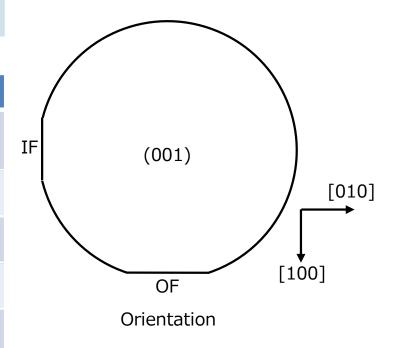
Items	Specifications
Substrate dopant	Sn (n-type)
Substrate resistivity	$0.007 \sim 0.042 \Omega \cdot \text{cm}$
Surface orientation	(001)
Backside finish	Grinding
Wafer thickness	640 µm
XRD FWHM *Not included in a delivery inspection sheet	≦350 arcsec

Remarks

- 1 There are cases in which the other side of OF is chipped (a maximum of around IF width).
- 2 These products must be used for research and development purposes only.
- 3 The substrates must not be used as a seed crystal.
- 4 The specifications are subject to change without notice.



Cross section of β -Ga₂O₃ epitaxial wafer





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