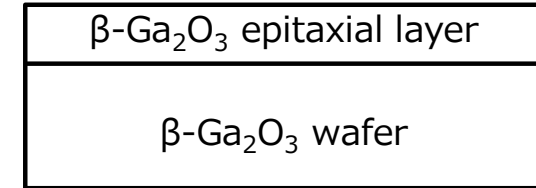


# Standard specifications of 100 mm $\beta$ -Ga<sub>2</sub>O<sub>3</sub> epitaxial wafer (by HVPE)

## Epitaxial layer

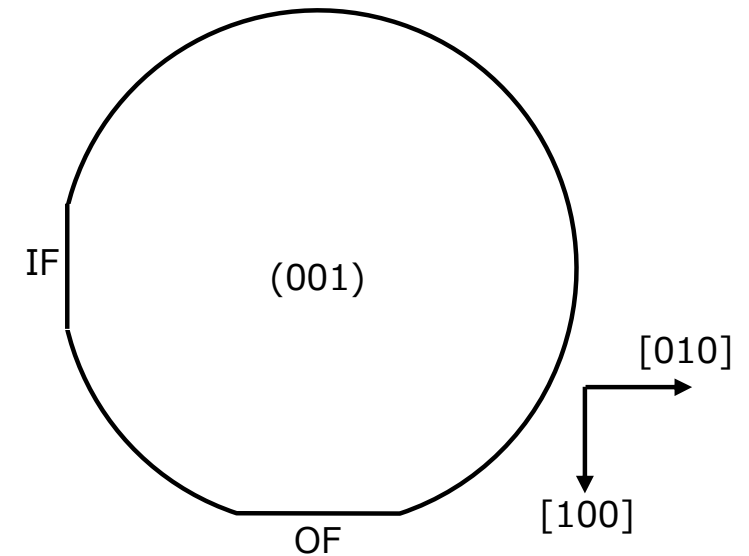
Items	Specifications
Dopant	Si (n-type)
Doping concentration <small>*A value can be selected in increments of <math>1 \times 10^{16} \text{ cm}^{-3}</math>.</small>	Specify a value in the range between $1 \times 10^{16}$ and $9 \times 10^{16} \text{ cm}^{-3}$
Thickness <small>*A value can be selected in increments 1 <math>\mu\text{m}</math>.</small>	Specify a value in the range between 5 and 10 $\mu\text{m}$



Cross section of  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> epitaxial wafer

## Wafer

Items	Specifications
Dopant	Sn (n-type)
Doping concentration	Using the range of $1 \times 10^{18} \sim 2 \times 10^{19} \text{ cm}^{-3}$
Orientation	(001)
Size	100 mm
Thickness	0.65 mm
XRD FWHM	$\leq 350 \text{ arcsec}$
Off set angle	$0^\circ \pm 1^\circ$



Orientation



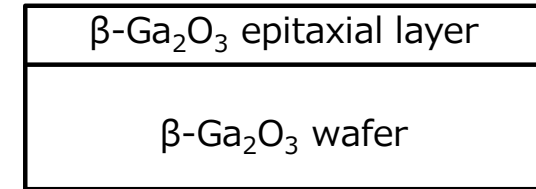
### Remarks

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

# Standard specifications of 2 inch $\beta$ -Ga<sub>2</sub>O<sub>3</sub> epitaxial wafer (by HVPE)

## Epitaxial layer

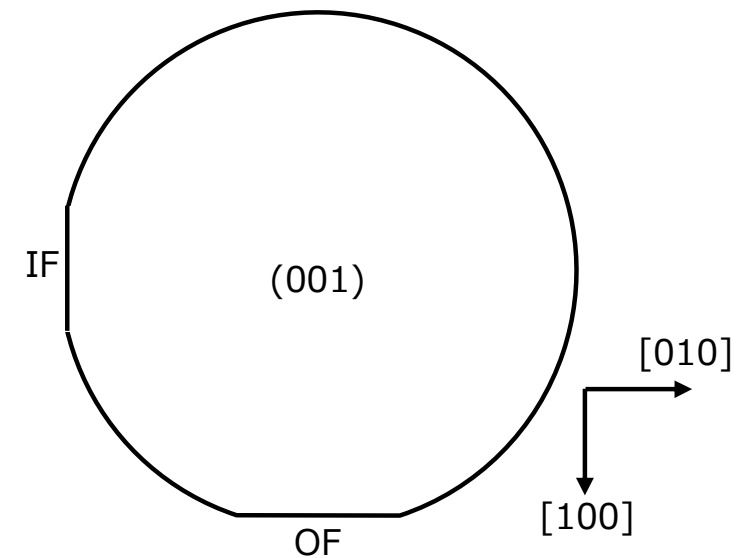
Items	Specifications
Dopant	Si (n-type)
Doping concentration <small>*A value can be selected in increments of <math>1 \times 10^{16} \text{ cm}^{-3}</math>.</small>	Specify a value in the range between $1 \times 10^{16}$ and $9 \times 10^{16} \text{ cm}^{-3}$
Thickness <small>*A value can be selected in increments 1 <math>\mu\text{m}</math>.</small>	Specify a value in the range between 5 and 10 $\mu\text{m}$



Cross section of  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> epitaxial wafer

## Wafer

Items	Specifications
Dopant	Sn (n-type)
Doping concentration	Using the range of $1 \times 10^{18} \sim 2 \times 10^{19} \text{ cm}^{-3}$
Orientation	(001)
Size	2 inch
Thickness	0.65 mm
XRD FWHM	$\leq 350 \text{ arcsec}$
Off set angle	$0^\circ \pm 1^\circ$



Orientation



### Remarks

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