

# Unlock New Possibilities in Si&SiC with Proton&Helium Implantation

From lifetime control to isolation layers – tailored solutions for your devices

## APPLICATIONS



### **SF-KHII®**

Suppress stacking fault expansion



### **Lifetime Control**

Optimize carrier lifetime for power devices



### **Isolation Layers**

Create precise buried insulating regions



## WHY CHOOSE OUR SERVICE?

### Optimize Material Performance:

Elevating Si & SiC Performance through Ion Implantation

### R&D Testing Made Easy:

Easily Start Testing with Our Equipment & Systems

### Flexible Scalability:

From Prototype to Mass Production – We Provide the Solution



# Ion Implantation into Semiconductor

## Get To Know Us

1

Contract processing service!

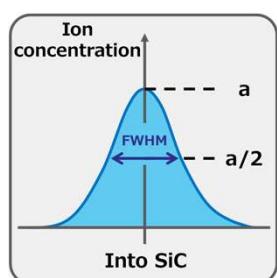
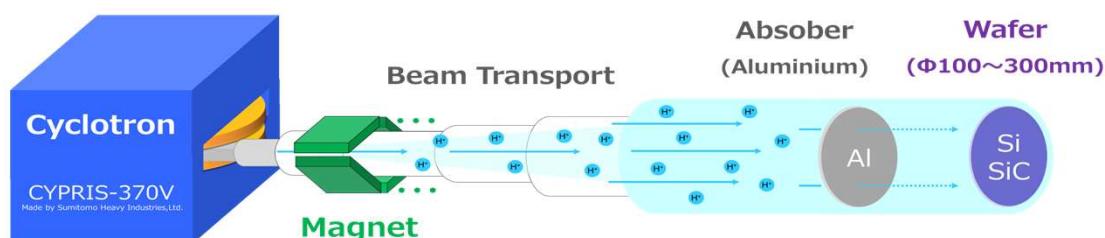
2

Implanting proton and helium ions!

3

High-energy light ion implantation!

## Implanter Spec.



	Gas	Ion	Energy	Into SiC (μm)	FWHM (μm)
Cyclotron Spec.	Hydrogen	H <sup>+</sup>	2MeV	0~29	1
		H <sup>+</sup>	4MeV	0~113	4
		H <sup>+</sup>	8MeV	0~320	11
	Helium-3	<sup>3</sup> He <sup>2+</sup>	23MeV	0~229	4
	Helium-4	<sup>4</sup> He <sup>2+</sup>	17MeV	0~114	2
Tandem Spec.	Hydrogen	H <sup>+</sup>	0.26~2.40MeV	1.6~43.0	~1.7

