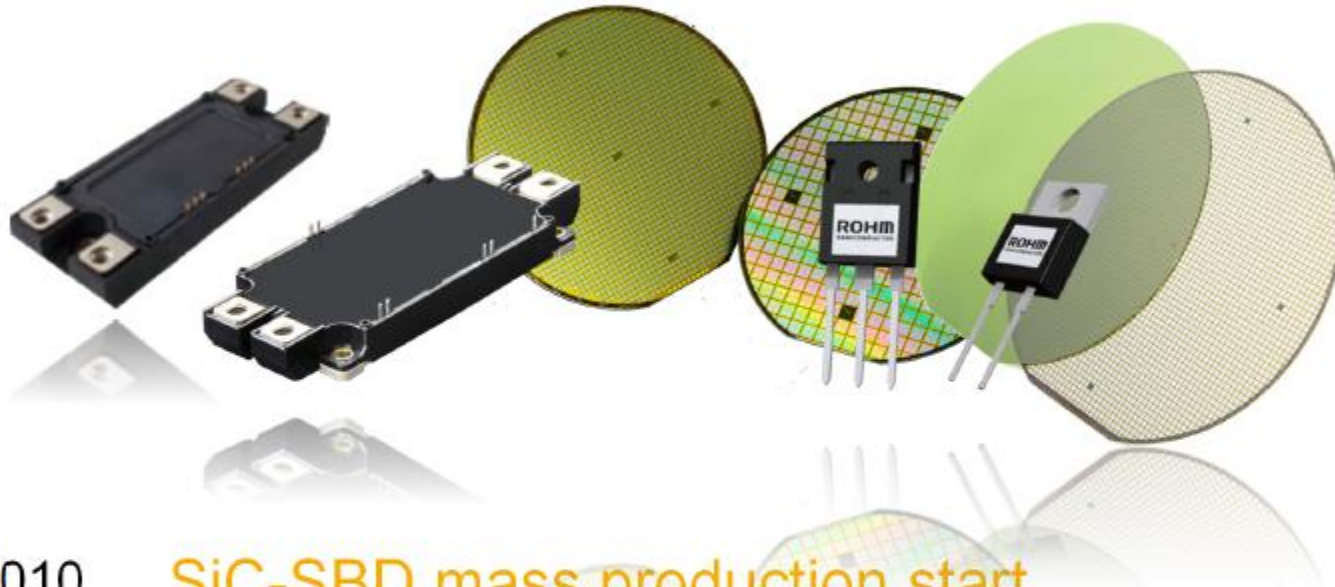


ROHM is Technology Leader of SiC



Confidential



- Apr 2010 **SiC-SBD mass production start**
- Dec 2010 **SiC-DMOS mass production start**
- Mar 2012 **Full SiC module mass production start**
- Jun 2015 **SiC Trench-MOS mass production start**



ROHM's SiC power Integrated In-House manufacturing system



Confidential

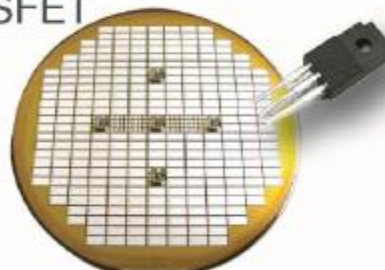
SiC Substrate

SiCrystal AG



SiC discrete devices

DMOSFET
SBD



SiC module



Integrated production

Fully Integrated Development of SiC semiconductor

2009 SiCrystal M&A

2011 4inch Mass production

2014 6inch Mass production



SiC-SBD

April 2010
Mass production



SiC-DMOS

December 2010
Mass production



Power Module

March 2012
Mass production

Nuremberg, Germany

SiCrystal AG

Fukuoka, Japan

ROHM Apollo Co., Ltd.

Kyoto, Japan

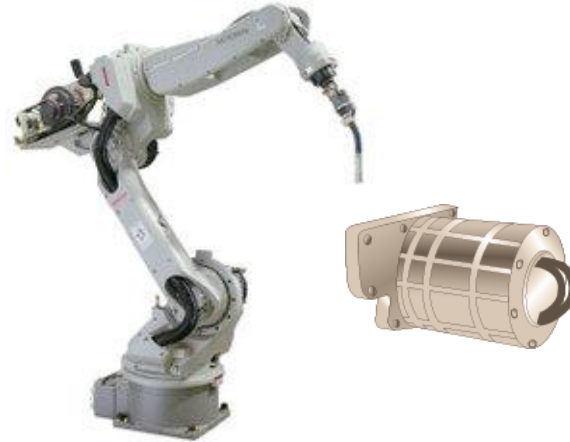
Headquarters

Applications of SiC Power Devices

UPS for Data Center



Industrial Drive



Photovoltaic



Railway



Automobile
EV/HEV



Wind
Power



Air Conditioner
Home
Electronics



Application Examples of SiC Power Devices

SiC SBDs for EV Chargers

SiC for fast charging



Full SiC Modules for Industrial

Large-scale IH
Inverter power supplies

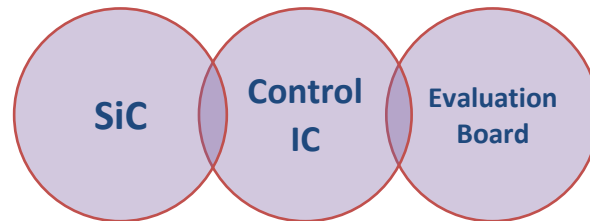
Volume
▲40%

Weight
▲50%



SiC AC/DC for Industrial

Configure easy-to-use power supply solutions by combining with ROHM's control IC that maximizes SiC performance



400V-690VAC Input Applications

