MITSUBISHI ELECTRIC
Changes for the Better

SiC MOSFET Chip Packaging Options

MITSUBISHI ELECTRIC CORPORATION

SiC MOSFET Chip Packaging Options

- The shipping package configuration can be selected from the options below to accommodate various customer wafer/chip storage environments and die-bonding equipment.
- Please contact Mitsubishi Electric for detailed specifications regarding the outer packaging, inner packaging, and other packaging requirements.

Our process

Wafer process

Wafer test

Wafer dicing

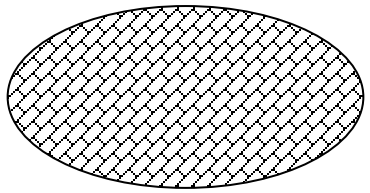
Singulation

Wafer packaging	Wafer packaging	Chip packaging	Chip packaging

Packaging Option

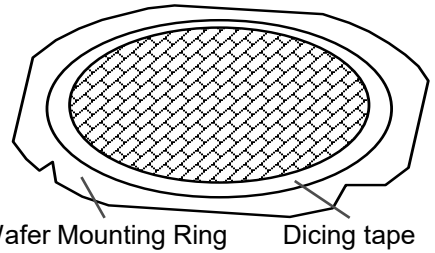
Unsawn wafer

- Wafers are packed and shipped in dedicated cases without dicing.
- Undiced wafers provide a longer storage life than diced wafers and allow customers to optimize dicing conditions according to their manufacturing needs.
- Storage Life: 1 Year*



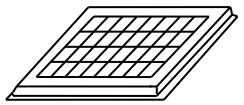
Sawn wafer

- Diced wafers are packed in dedicated cases and shipped in wafer form.
- Eliminates the need for customers to purchase and maintain dicing equipment. In addition, wafer handling during die attach processes and chip mapping management are simplified.
- Storage Life: 3 Months (From UV Exposure)*



Chip tray

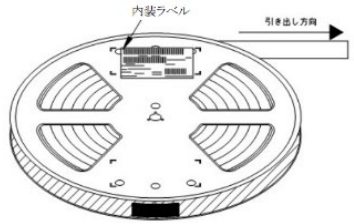
- Chips are packed in designated trays after dicing and shipped.
- Compared with sawn wafers, this option offers more efficient use of storage space, longer storage life, easier visual inspection, and reduced risk of chip contact or abrasion.
- Storage Life: 1 Year*



Tape reel

* Available for mass production from April 2027.

- Chips are packed in designated tape-and-reel packaging after dicing and shipped.
- Compared with chip trays, this packaging option enables high-speed, continuous chip feeding during die attach and facilitates management of chip orientation and pickup position.• Storage Life: 1 Year*



* Validity Period for Unopened Packages (excluding transportation time)
Storage Conditions: 5°C ≤ Ta ≤ 30°C, 45% ≤ RH ≤ 70%

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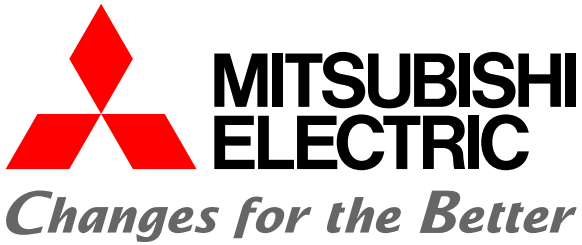
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