

## Schottky Barrier Rectifier

### SS5200A SMA



Cathode  Anode

### Features

- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

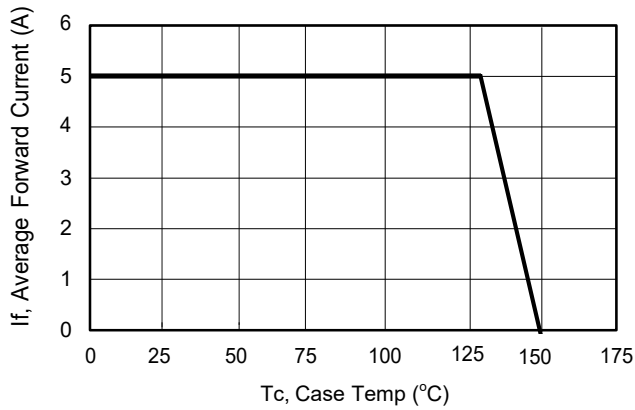
### Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

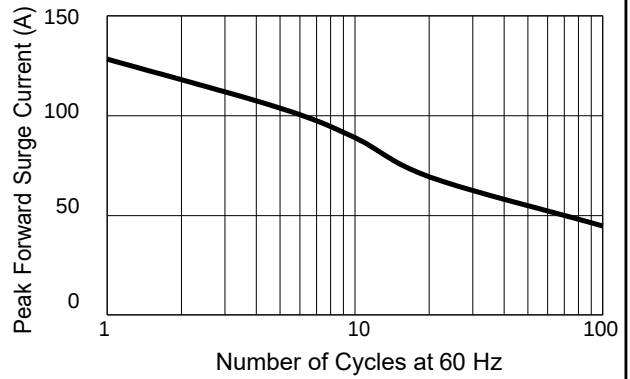
### Maximum ratings and electrical characteristics (TJ = 25°C unless otherwise noted)

| Parameter                                                                          |       |          | Symbol   | Limit       |      | Unit |
|------------------------------------------------------------------------------------|-------|----------|----------|-------------|------|------|
| Maximum repetitive peak reverse voltage                                            |       |          | VRRM     | 200         |      | V    |
| Maximum average forward rectified current                                          |       |          | IF(AV)   | 5           |      | A    |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load |       |          | IFSM     | 125         |      | A    |
| Operating junction and storage temperature range                                   |       |          | TJ, TSTG | -50 to +150 |      | °C   |
| Typical thermal resistance                                                         |       |          | RθJA     | 55          |      | °C/W |
| Instantaneous forward voltage                                                      |       |          | VF       | TYP.        | MAX. | V    |
|                                                                                    | IF=5A | TJ=25°C  |          | 0.79        | 0.81 |      |
|                                                                                    | IF=5A | TJ=125°C |          | 0.73        | -    |      |
| Instantaneous reverse current at rated reverse voltage                             |       | TJ=25°C  | IR       | 1           | 200  | μA   |
|                                                                                    |       | TJ=125°C |          | 2           | -    | mA   |

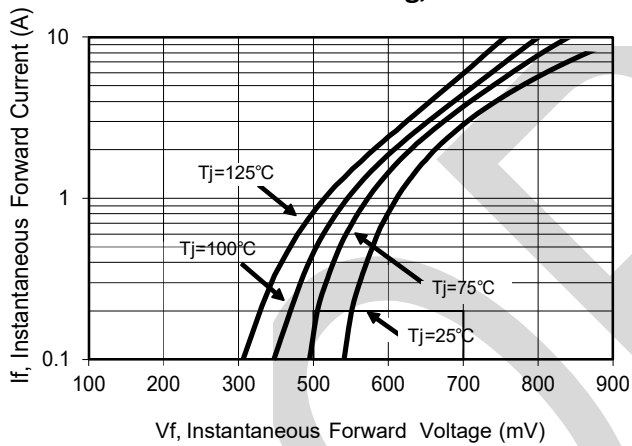
## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



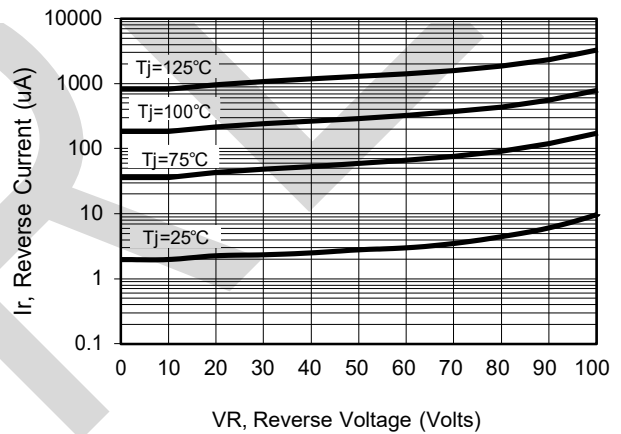
Current Derating, Case



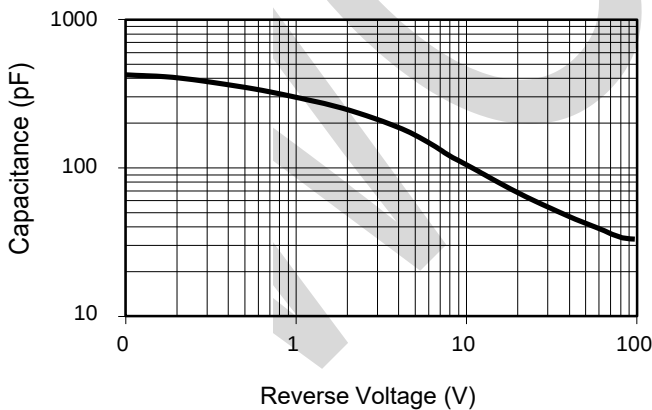
Maximum Repetitive Surge Current



Typical Forward Voltage



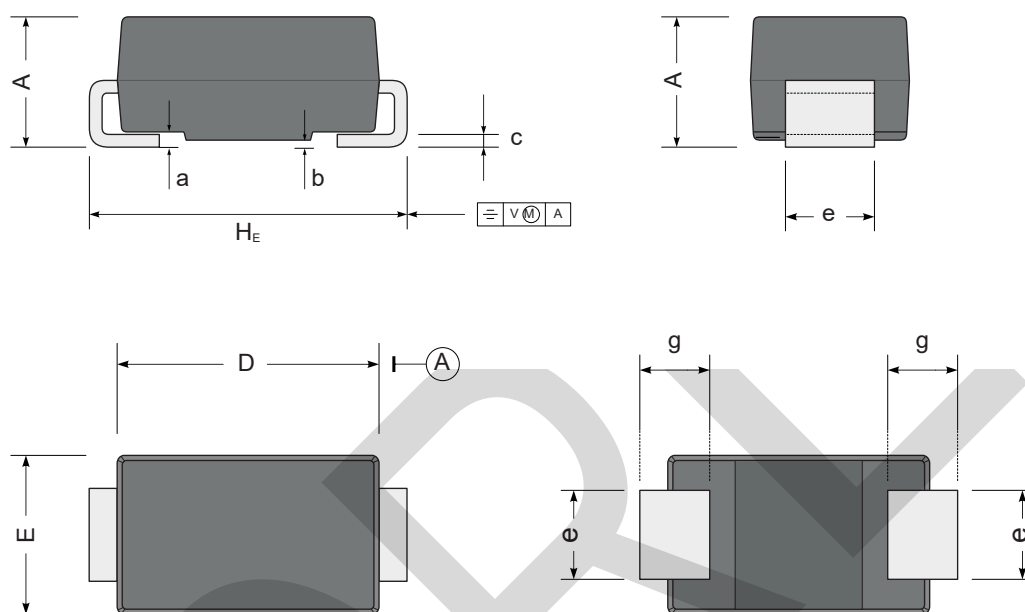
Typical Reverse Current



Typical Junction Capacitance

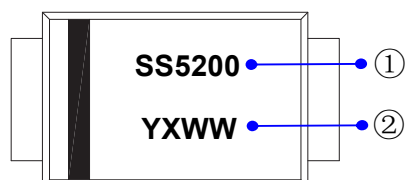
## PACKAGE OUTLINE DIMENSIONS

### SMA



| UNIT |     | A   | D   | E   | H <sub>E</sub> | c    | e   | g   | b    | a   |
|------|-----|-----|-----|-----|----------------|------|-----|-----|------|-----|
| mm   | max | 2.2 | 4.5 | 2.7 | 5.2            | 0.31 | 1.6 | 1.5 | 0.2  | 0.3 |
|      | min | 1.9 | 4.0 | 2.3 | 4.7            | 0.15 | 1.3 | 0.9 | 0.05 |     |
| mil  | max | 87  | 181 | 106 | 205            | 12   | 63  | 59  | 7.9  | 12  |
|      | min | 75  | 157 | 91  | 185            | 6    | 51  | 35  | 2    |     |

## Marking Information



①Product model : SS5200

②PDC information :

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)