

2A,200V Schottky Barrier Rectifier

Features

- Low leakage current
- Schottky barrier diode
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260 ℃/10 seconds





SMA(DO-214AC)

Applications

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

| Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted) | | | | | |
|---|--------------------|-------------|------|--|--|
| Parameter | Symbol | SK2C0A | Unit | | |
| Maximum repetitive peak reverse voltage | V _{RRM} | 200 | V | | |
| Maximum RMS voltage | V _{RMS} | 140 | V | | |
| Maximum DC blocking voltage | V _{DC} | 200 | V | | |
| Maximum average forward rectified current | I _{F(AV)} | 2 | Α | | |
| Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode | IFSM | 50 | Α | | |
| Operating junction temperature range | TJ | -55 to +150 | °C | | |
| Storage temperature range | Тѕтс | -55 to +150 | °C | | |

| Thermal-Mechanical Specifications (TA=25°C unless otherwise noted) | | | | | | |
|--|----------------|-----|-------|--|--|--|
| Parameter | Symbol | Тур | Unit | | | |
| Thermal Resistance, Junction to Ambient | RθJA | 90 | °C /W | | | |
| Thermal Resistance, Junction to Case | Rejc | 20 | °C /W | | | |
| Thermal Resistance, Junction to Lead | $R_{	heta JL}$ | 25 | °C /W | | | |



SK2C0A GOOD-ARK Electronics

| Electrical Specifications(TA=25°C unless otherwise noted) | | | | | | |
|---|----------------|--------------------|--------|------|--|--|
| Parameter | Symbol | Test Conditions | SK2C0A | Unit | | |
| Forward Drop Voltage | V _F | I _F =2A | 0.85 | V | | |
| Reverse leakage current @V _R | IR | T₃ =25°C | 30 | - uA | | |
| | | T」=125°C | 1000 | | | |
| Typical junction capacitance | CJ | 4.0 V 1 MHZ | 30 | pF | | |

Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

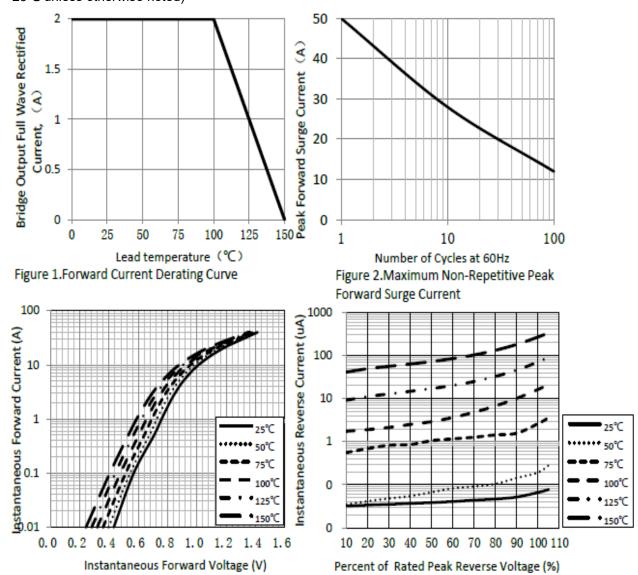


Figure 3. Typical Instantaneous Forward Characteristics Figure 4. Typical Reverse Characteristics

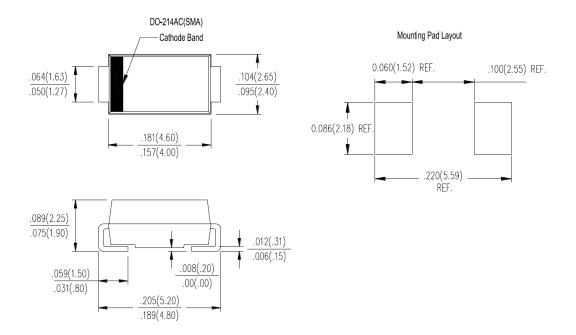


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Package Outline Dimensions

in inches (millimeters)

SMA (DO-214AC)



Revision History

| Document Version | Date of release | Description of changes |
|------------------|-----------------|------------------------|
| Rev.A | 2021.06.01 | Released Datasheet |
| Rev.B | 2023.10.19 | Modify document format |



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