

Ultra Fast Recovery Rectifier Diode U20A3CICA

Switching Type Power Supply Application
Converter & Chopper Application.

FEATURES

- Ultra-Fast Recovery Time for High Efficiency.
- Low Forward Voltage Drop, High Current Capability, And Low Power Loss.

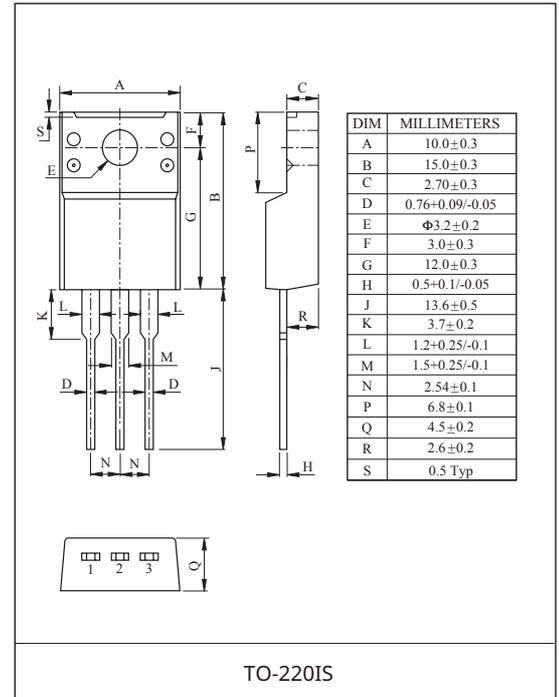
APPLICATION

- Switching Power Supply.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.

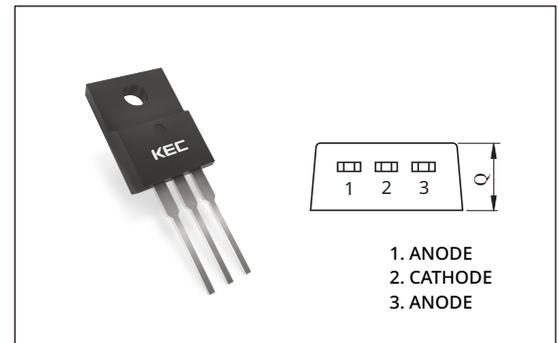
ORDERING INFORMATION

| PART NUMBER | QTY PER INNER CASE | INNER CASE SIZE(mm) |
|-------------|--------------------|---------------------|
| U20A3CICA | 1,000pcs | 144 X 563 X 55 |

PACKAGE DIMENSION(TO-220IS)



PIN CONFIGURATION



PRODUCT DATASHEET

Ultra Fast Recovery Rectifier Diode - U20A3CICA

MAXIMUM RATINGS (Ta=25°C)

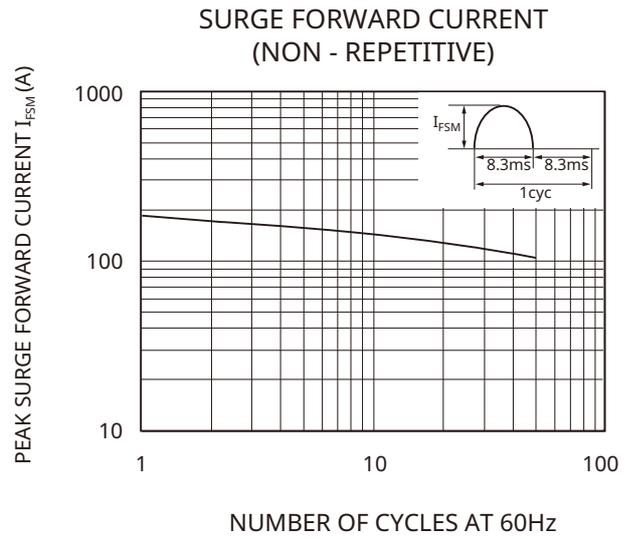
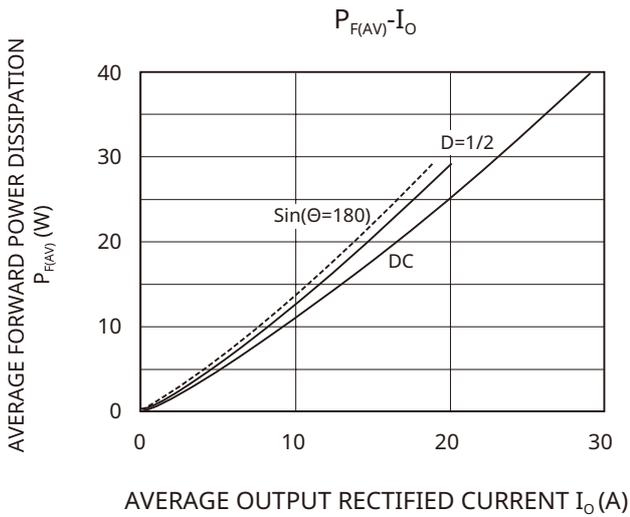
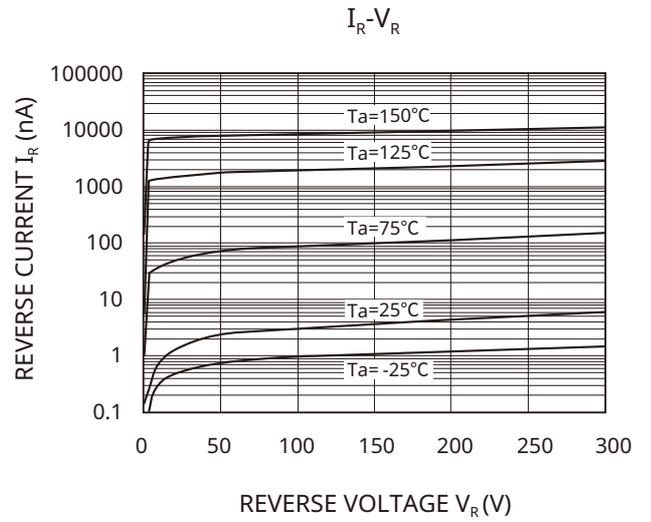
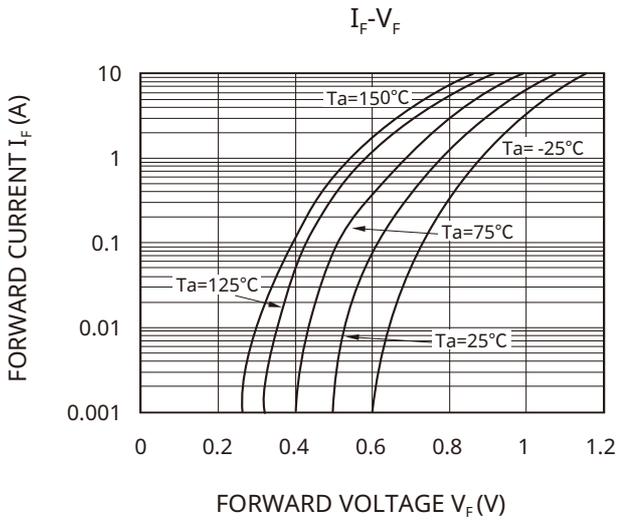
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|-----------|-----------|------|
| Reverse Voltage | V_{RRM} | 300 | V |
| Average Forward Current (50Hz Square wave duty=1/2, Tc=105°C) | I_O | 20 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | I_{FSM} | 110 | A |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -40 ~ 150 | °C |

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-----------------------|---------------|-------------------------------------|------|------|------|------|
| Forward Voltage | V_F | $I_F=10A$ | - | - | 1.3 | V |
| Reverse Current | I_R | $V_R=V_{RRM}$ | - | - | 35 | μA |
| Reverse Recovery Time | t_{rr} | $I_F=1.0A, I_R=0.2A, I_{rec}=0.05A$ | - | - | 0.04 | μs |
| Thermal Resistance | $R_{th(j-c)}$ | Junction to case | - | - | 3 | °C/W |

PRODUCT DATASHEET

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PRECAUTION ON USING KEC PRODUCTS

1. The products described in this data are intended to be used in general-purpose electronic equipment. (Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.

The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.

5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
6. Although KEC is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. KEC shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by KEC.

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