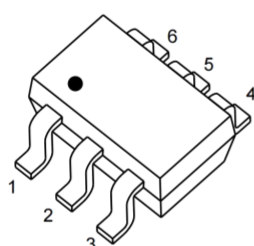


### Features

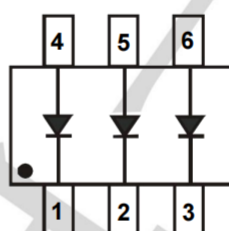
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- RoHs Product



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### Applications

- surface mount schottky barrier rectifier
- Buck and Boost dc-dc Converters
- Low Voltage High Frequency Switching Power Supply
- Low Voltage High Frequency Invers Circuit
- Low Voltage Continued Circuit and Protection Circuit



Device Schematic

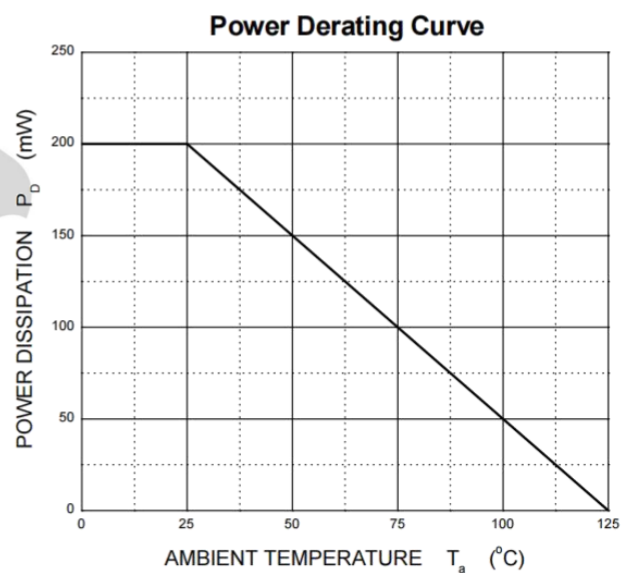
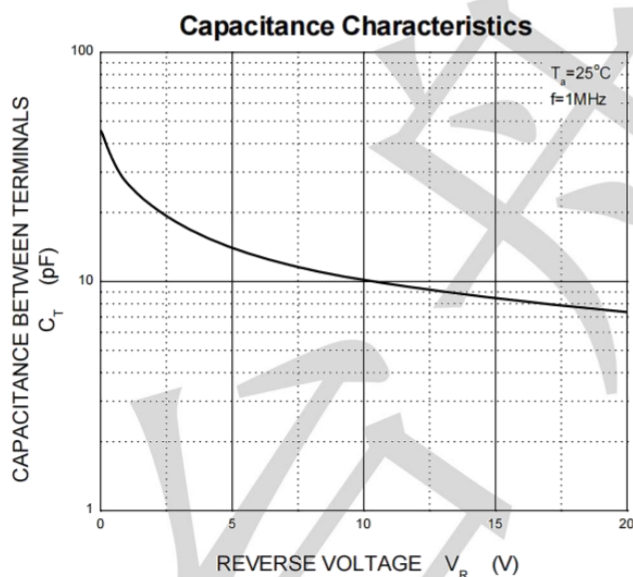
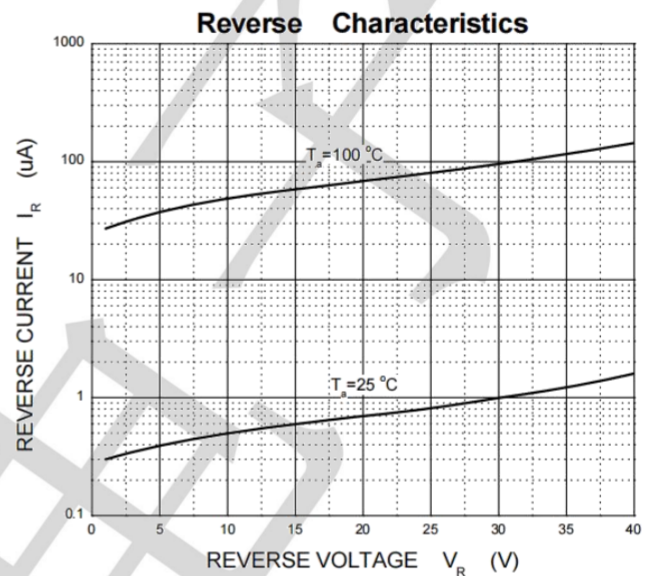
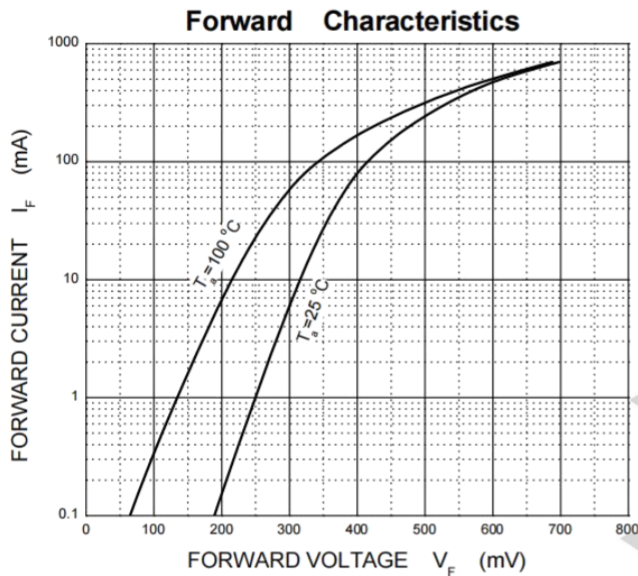
### Absolute Maximum Ratings

| Parameter                                         | Symbol | Value       | Unit |
|---------------------------------------------------|--------|-------------|------|
| Peak Repetitive Peak Reverse Voltage              | VRRM   | 40          | V    |
| Working Peak Reverse Voltage                      | VRWM   | 40          | V    |
| DC Blocking Voltage                               | VR     | 40          | V    |
| Maximum RMS voltage                               | VRMS   | 28          | V    |
| Forward Continuous Current                        | IFM    | 350         | mA   |
| Average Rectified Current                         | Io     | 175         | mA   |
| Non-repetitive Peak Forward Surge Current@t=8.3ms | IFSM   | 2.0         | A    |
| Power Dissipation                                 | Pd     | 200         | mW   |
| Thermal Resistance Junction to Ambient            | RθJA   | 500         | °C/W |
| Operating Junction Temperature Range              | TJ     | -40 to +125 | °C   |
| Storage Temperature Range                         | TSTG   | -55 to +150 | °C   |

### Electrical Characteristics (TA=25°C unless otherwise specified)

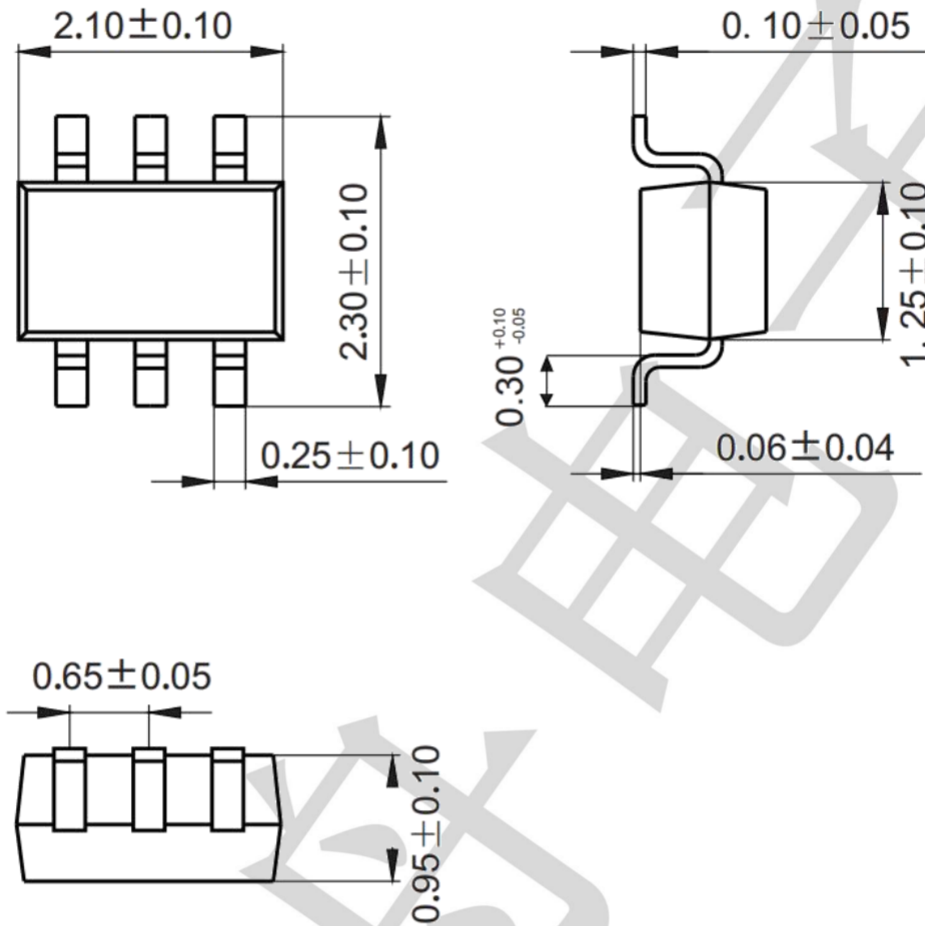
| Parameter                 | Symbol | Min | Typ | Max  | Unit | Test Condition                   |
|---------------------------|--------|-----|-----|------|------|----------------------------------|
| Reverse breakdown voltage | V (BR) | 40  | --  | --   | V    | IR=100μA                         |
| Forward Voltage           | VF     | --  | --  | 0.37 | V    | IF=20mA                          |
|                           |        | --  | --  | 0.50 | V    | IF=100mA                         |
| Reverse Leakage           | IR     | --  | --  | 2.0  | uA   | VR=10V                           |
|                           |        | --  | --  | 5.0  | uA   | VR=30V                           |
| Capacitance terminals     | CT     | --  | 50  | --   | pF   | VR = 0 V, f = 1 MHz              |
| Reverse recovery time     | trr    |     | 10  |      | ns   | IF=IR=200mA, Irr=0.1XIR, RL=100Ω |

### Typical Electrical Characteristic Curves



**Package Outline Dimensions (unit: mm)**

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**Mounting Pad Layout (unit: mm)**

