

## Schottky Rectifier - 0.2Amp 30Volt

### □ Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- For use in low voltage high frequency inverters, free wheeling and polarity protection application
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- ESD sensitive product handling required

### □ Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end

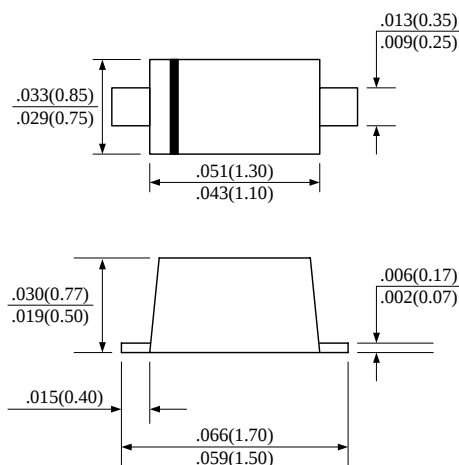
### □ Maximum ratings and Electrical characteristics

| TYPE                                                    | SYMBOL | CH520S-30PT | UNIT |
|---------------------------------------------------------|--------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage                  | VRRM   | 30          | V    |
| Maximum RMS Voltage                                     | VRMS   | 21          | V    |
| Maximum DC Blocking Voltage                             | VDC    | 30          | V    |
| Maximum Average Forward Rectified Current               | IO     | 0.2         | A    |
| Peak Forward surge Current, 8.3ms single half sine-wave | IFSM   | 1.0         | A    |
| Maximum Instantaneous Forward Voltage at IF = 200mA     | VF     | 0.6         | V    |
| Maximum Average Reverse Current at VR = 10V             | IR     | 1.0         | μA   |
| Typical Junction Capacitance between Terminal (Note 1)  | CJ     | 6.0         | pF   |
| Operating Temperature Range                             | TJ     | 125         | °C   |
| Storage Temperature Range                               | TSTG   | -40 - 125   | °C   |

Note: Measured at 1.0 MHz and applied reverse voltage of 10.0 volts

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SOD-523



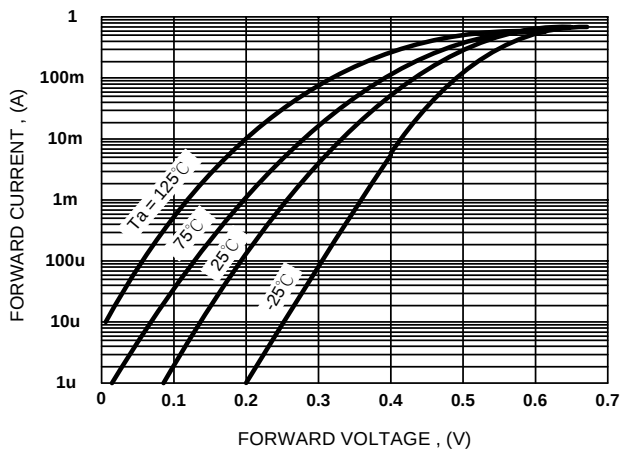


Figure 1. Forward Characteristics

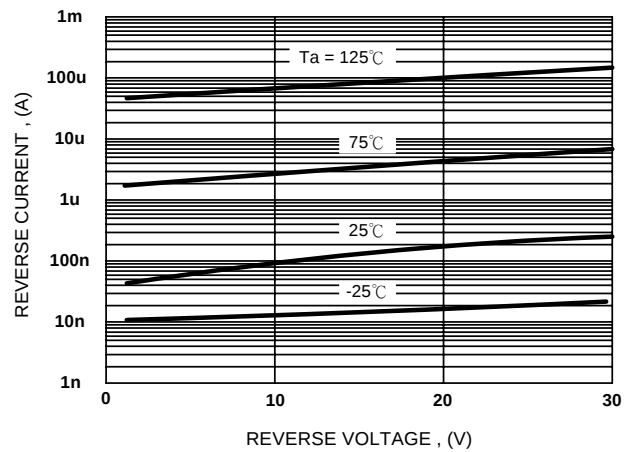


Figure 2. Reverse Characteristics

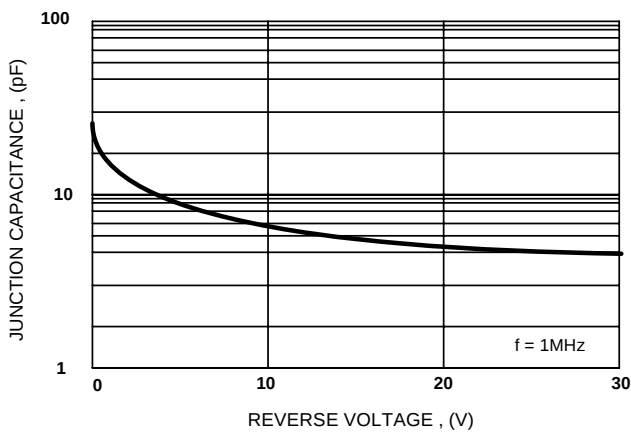


Figure 3. Typical Junction Capacitance

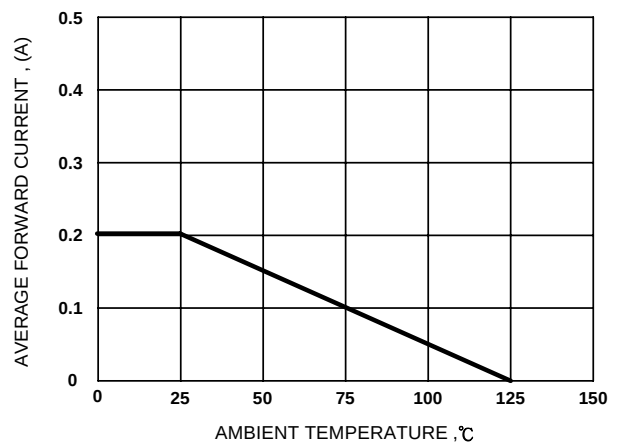


Figure 4. Forward Current Derating Curve