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# RB532HS-30
## Schottky barrier diode

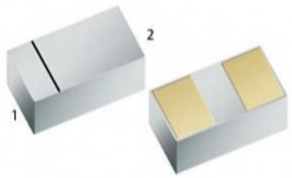
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### Features

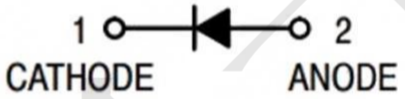
- High Continuous Forward Current
- Low Reverse Current
- Very Low Forward Voltage Drop
- Very High Switching Speed

### Applications

- surface mount schottky barrier rectifier
- Buck and Boost dc-dc Converters
- Reverse Voltage and Current Protection
- Clamping & Protection




CSP0201




### Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Reverse Voltage | $V_R$ | 30 | V |
| Forward Current (DC) | $I_F$ | 200 | mA |
| Forward Surge Current (60 Hz @ 1 cycle) | $I_{FSM}$ | 1.5 | A |

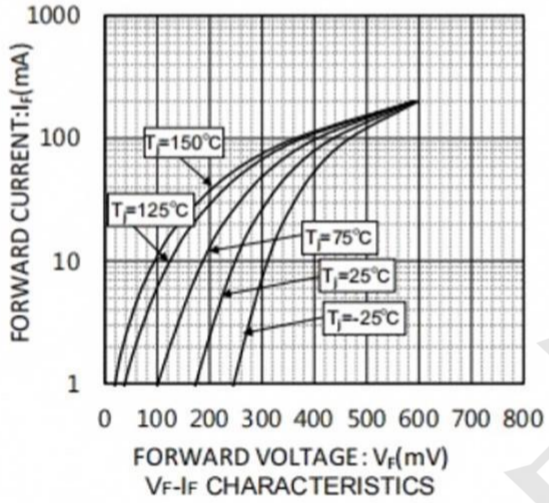
### Thermal Characteristics

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Total Power Dissipation | PD | 312 | mW |
| Typical Thermal Resistance per leg @TA = 25°C | RθJA | 400 | °C/W |
| Operating Junction Temperature Range | $T_J$ | −40 to +150 | °C |
| Storage Temperature Range | $T_{STG}$ | −40 to +150 | °C |
| Mounted onto a 4 in square FR−4 board 10 mm sq. 1 oz. Cu 0.06" thick single sided. Operating to steady state. | | | |

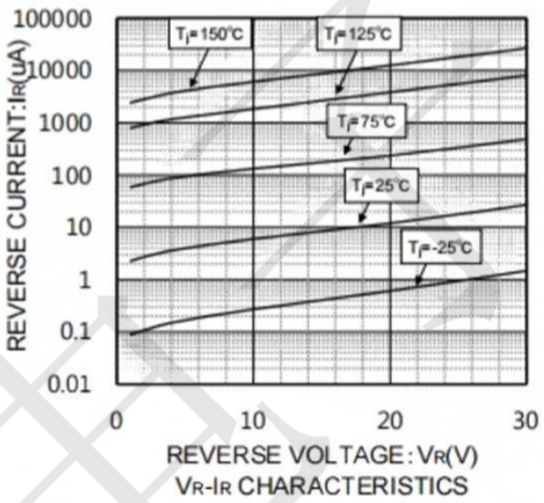
### Electrical Characteristics (TA=25°C unless otherwise specified)

| Parameter | Symbol | Min | Typ | Max | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Forward Voltage | VF* | -- | -- | 0.31 | V | IF=10mA |
| | | -- | -- | 0.52 | V | IF=200mA |
| Reverse Leakage | $I_R$** | -- | -- | 15 | uA | VR = 10 V |
| | | -- | -- | 100 | uA | VR = 30 V |
| Total Capacitance | $C_T$ | -- | 10 | -- | pF | VR = 5.0 V, f = 1 MHz |
| *Pulse width ≤380 uS, Duty cycle < 2%; **pulse test ， tp≤5ms | | | | | | |

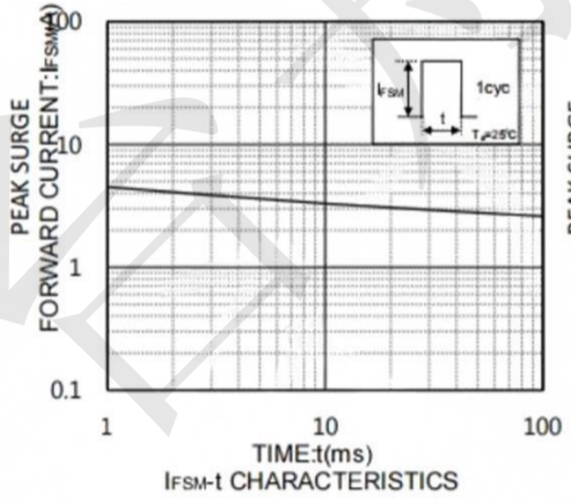
**Typical Electrical Characteristic Curves**



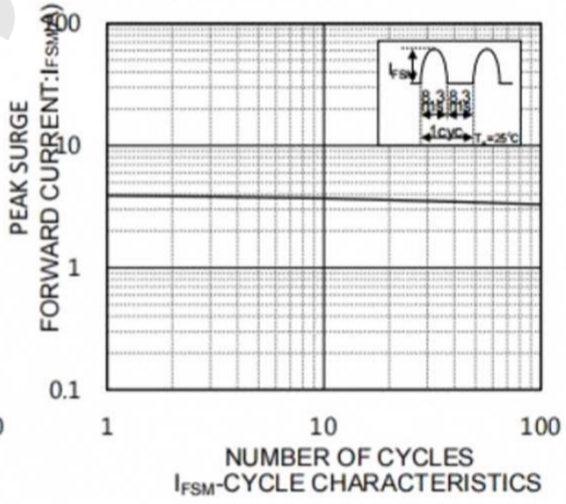

VF-IF CHARACTERISTICS




VR-IR CHARACTERISTICS

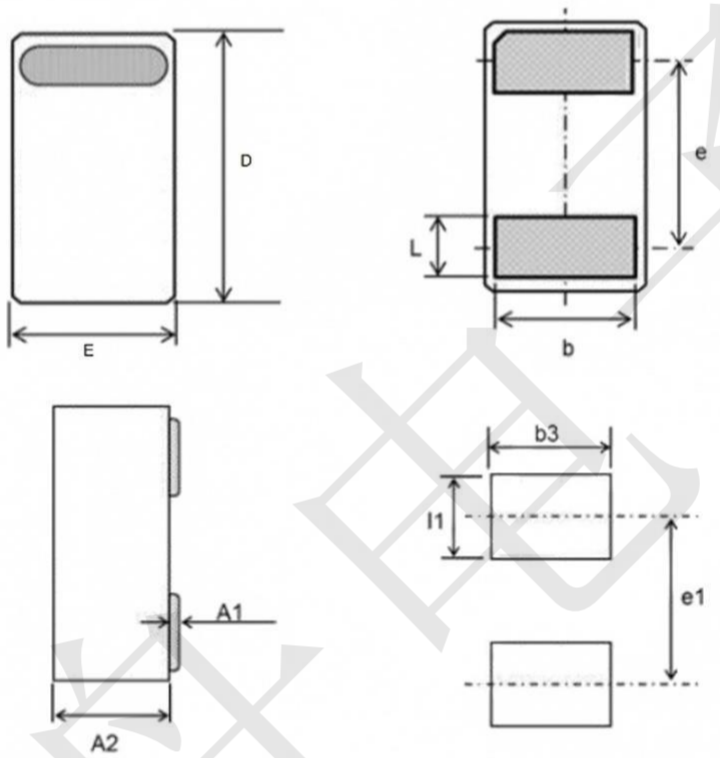



IFSM-t CHARACTERISTICS




IFSM-CYCLE CHARACTERISTICS

## Outline Drawing - CSP0201




| DIM | Milimeters | | | Inches | | |
|---|---|---|---|---|---|---|
| | Min. | Average | Max. | Min. | Average | Max. |
| A1 | 0.000 | - | 0.010 | 0.000 | - | 0.000 |
| A2 | 0.270 | 0.280 | 0.290 | 0.011 | 0.011 | 0.011 |
| b | 0.230 | 0.240 | 0.250 | 0.009 | 0.009 | 0.010 |
| D | 0.590 | 0.600 | 0.610 | 0.023 | 0.024 | 0.024 |
| E | 0.290 | 0.300 | 0.310 | 0.011 | 0.012 | 0.012 |
| L | 0.130 | 0.140 | 0.150 | 0.005 | 0.006 | 0.006 |
| e | 0.390 | 0.400 | 0.410 | 0.015 | 0.016 | 0.016 |
| l1 | - | 0.230 | - | - | 0.009 | - |
| b3 | - | 0.310 | - | - | 0.012 | - |
| e1 | - | 0.380 | - | - | 0.015 | - |