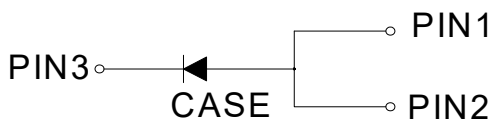
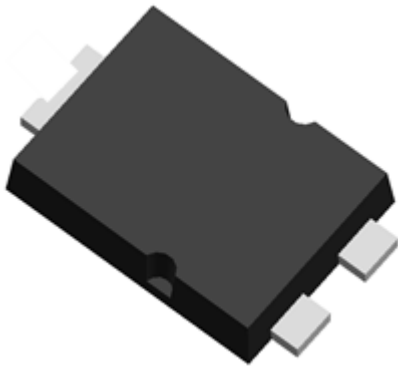


Schottky Rectifier



Features

- Ideal for automated placement
- Low power losses
- High forward surge capability
- Meets MSL level1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in lighting, fast switching rectification of power suppliers, inverters, converters, and freewheeling diodes for consumer, automotive, and telecommunication.

Mechanical Data

- **Package:** TO-277
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS5U200P |
|------------------------------------------------------------------------------------------------|------------------|------------------|-----------|
| Device marking code | | | SS5U200P |
| Repetitive Peak Reverse Voltage | V _{RRM} | V | 200 |
| Average Rectified Output Current @60Hz -sine wave, R- load, T _c =114°C | I _O | A | 5 |
| Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, T _a =25°C | I _{FSM} | A | 240 |
| Current Squared Time @1ms≤t≤8.3ms T _j =25°C | I ² t | A ² s | 239 |
| Storage Temperature | T _{stg} | °C | -55 ~+150 |
| Junction Temperature | T _j | °C | -55 ~+150 |

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | Min | Typ | Max |
|---------------------------|-----------------|------|----------------------------------------------|-----|------|------|
| Peak Forward Voltage | V _{FM} | V | I _{FM} =5.0A, T _j =25°C | - | 0.79 | 0.9 |
| | | | I _{FM} =5.0A, T _j =125°C | - | 0.63 | 0.72 |
| Reverse Breakdown Voltage | V _{BR} | V | I _R =0.1mA | 200 | - | - |
| Leakage Current | I _R | uA | V _R =200V, T _j =25°C | - | - | 50 |
| | | | V _R =200V, T _j =125°C | - | - | 500 |

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



SS5U200P

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | | SYMBOL | UNIT | SS5U200P |
|--------------------|------------------|-------------------|------|----------|
| Thermal Resistance | Junction to Case | R _{θJ-C} | °C/W | 8 |

■ Ordering Information (Example)

| PREFERRED P/N | PACKAGE CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|---------------|--------------|--------------------|----------------------|-------------------------|----------------------------|---------------|
| SS5U200P | F1 | Approximate 0.0828 | 5000 | 10000 | 80000 | 13" reel |

■ Characteristics(Typical)

FIG.1: I_o-T_c Curve

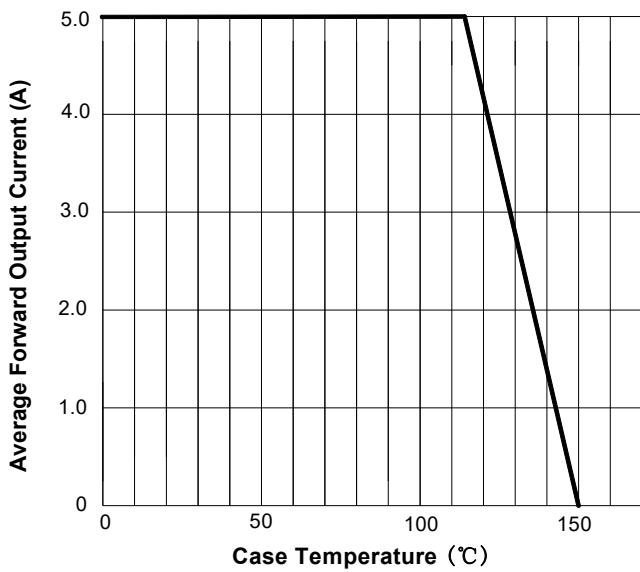


FIG.2: Forward Surge Current Capability

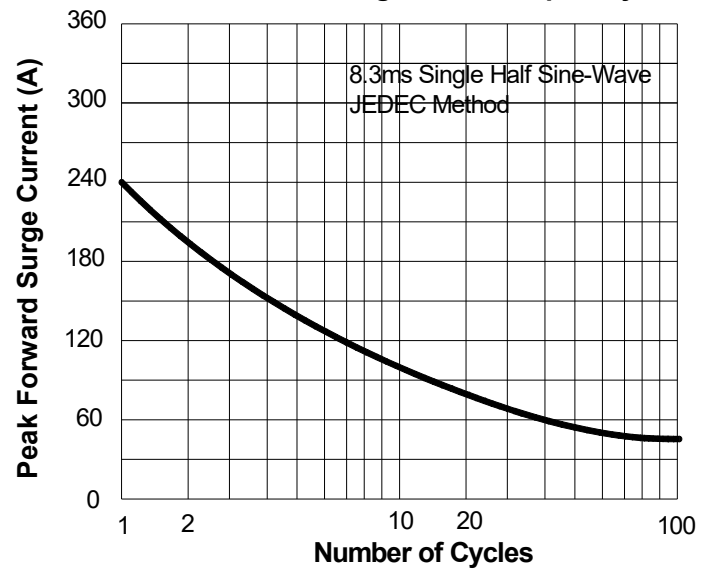


FIG.3: Forward Voltage

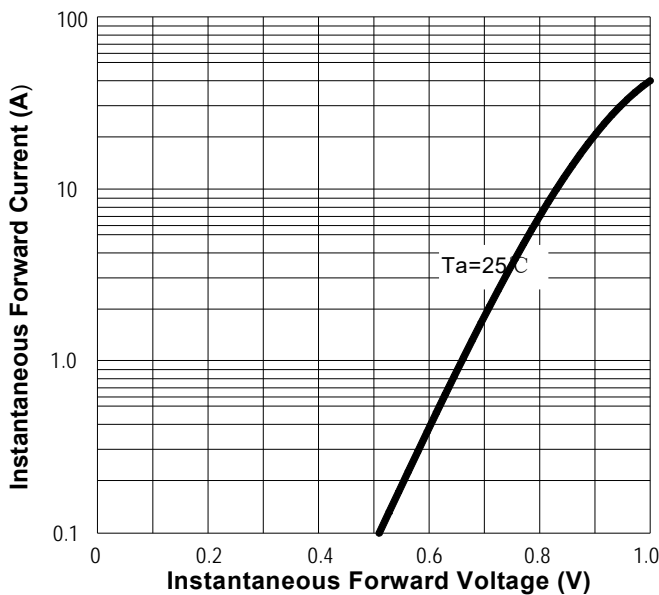
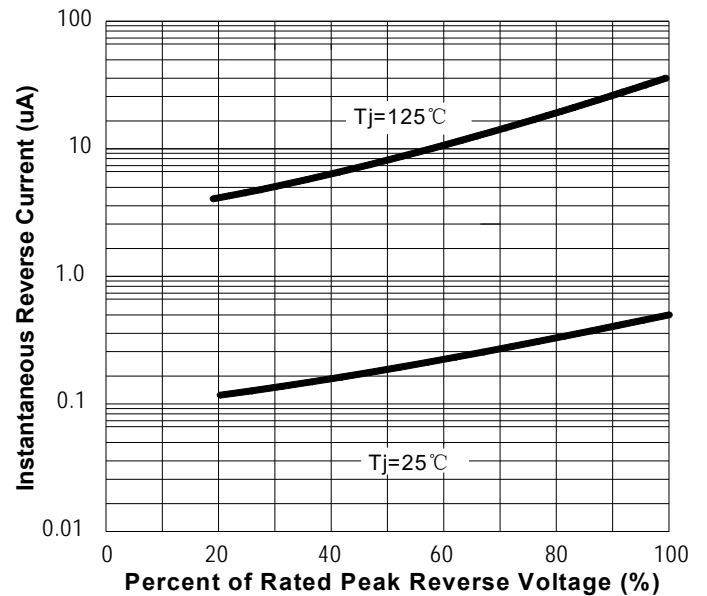


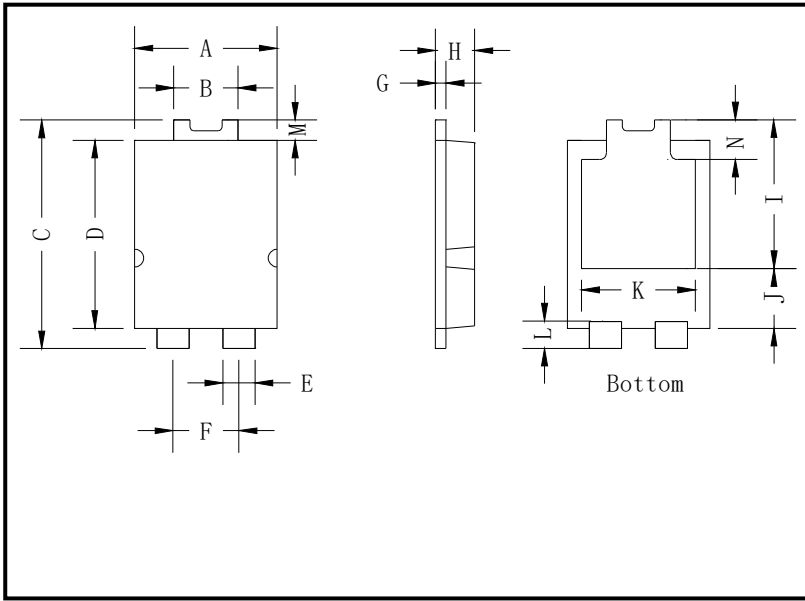
FIG.4: Typical Reverse Characteristics





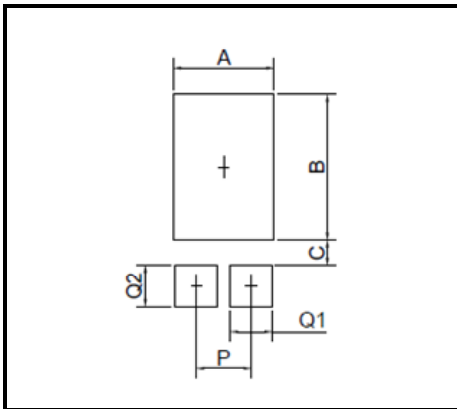
SS5U200P

■ Outline Dimensions



| TO-277 | | |
|--------|-----------|---------|
| Dim | Min(mm) | Max(mm) |
| A | 3.90 | 4.10 |
| B | 1.70 | 1.90 |
| C | 6.40 | 6.60 |
| D | 5.30 | 5.50 |
| E | 0.80 | 1.00 |
| F | 1.85 ref. | |
| G | 0.35 | 0.45 |
| H | 1.10 | 1.20 |
| I | 4.10 | 4.50 |
| J | 1.50 | 1.90 |
| K | 2.90 | 3.40 |
| L | 0.55 | 0.75 |
| M | 0.50 ref. | |
| N | 1.15 ref. | |

■ Suggested pad layout



| DIM | MIN.(mm) |
|-----|----------|
| A | 3.36 |
| B | 4.86 |
| C | 0.85 |
| P | 1.84 |
| Q1 | 1.40 |
| Q2 | 1.40 |



SS5U200P

Disclaimer

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