

Schottky Barrier Rectifier

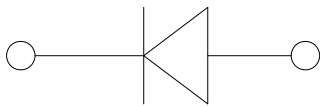


Features

- N+ IMP, Passivation Dep
- Guardring for overvoltage protection
- Low power loss
- Extremely fast switching
- High forward surge capability
- High frequency operation
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.



Mechanical Data

- **Package:** DO-204AC(DO-15)
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
- **Polarity:** Color band denotes the cathode end

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

| PARAMETER | SYMBOL | UNIT | SR260T |
|--|-----------|------------------|-----------|
| Device marking code | | | SR260T |
| Repetitive Peak Reverse Voltage | V_{RRM} | V | 60 |
| Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1) | I_o | A | 2.0 |
| Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C | I_{FSM} | A | 50 |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 time, Tj=25°C | | | 100 |
| Current squared time @1ms<t<8.3ms Tj=25°C, Rating of per diode | I^2t | A ² s | 10 |
| Storage Temperature | T_{stg} | °C | -55 ~+150 |
| Junction Temperature | T_j | °C | -55 ~+175 |

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

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | SR260T |
|---|--------|------|--|--------|
| Maximum instantaneous forward voltage drop per diode | V_F | V | $I_{FM}=2.0A$ | 0.7 |
| Maximum DC reverse current at rated DC blocking voltage per diode | I_R | mA | $T_a=25^\circ C$ | 0.2 |
| | | | $T_a=100^\circ C$ | 20 |
| Typical junction capacitance | C_j | pF | Measured at 1MHZ and Applied Reverse Voltage of 4.0 V D.C. | 94 |

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

Note2:Pulse test:pulse width 40mS



SR260T

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

| PARAMETER | SYMBOL | UNIT | SR260T |
|--------------------|-------------------|------|--------|
| Thermal Resistance | R _{θJ-A} | °C/W | 45 |
| | R _{θJ-L} | | 10 |
| | R _{θJ-C} | | 8 |

■ Characteristics(Typical)

FIG.1: I_o-T_c Curve

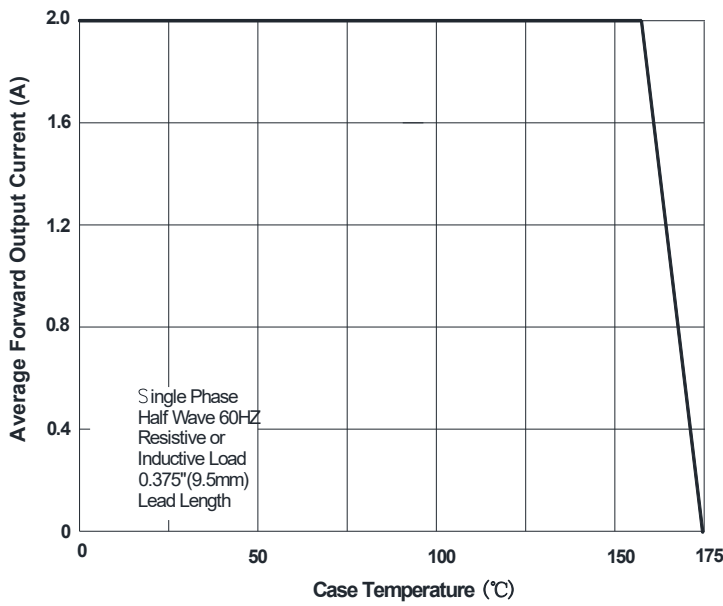


FIG.2: I_o-T_a Curve

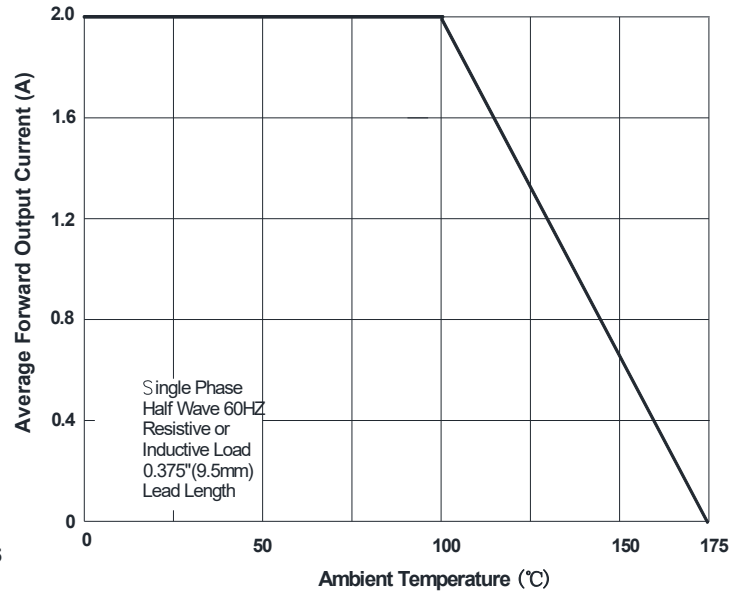


FIG3: Surge Forward Current Capability

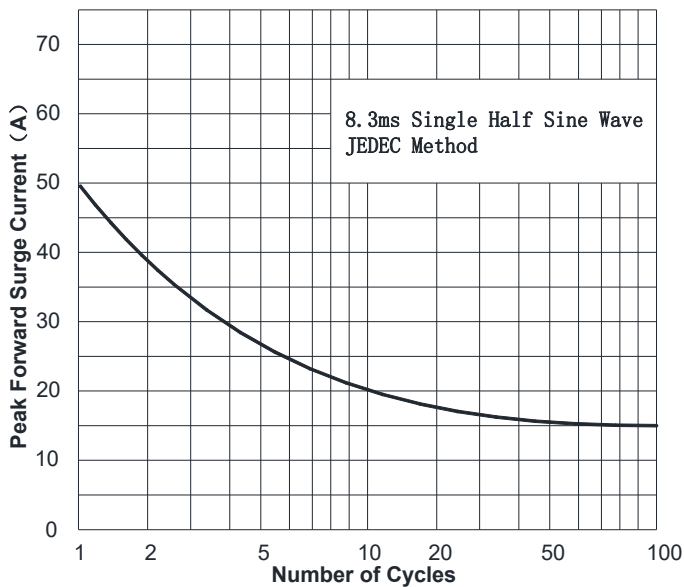


FIG.4: Forward Voltage

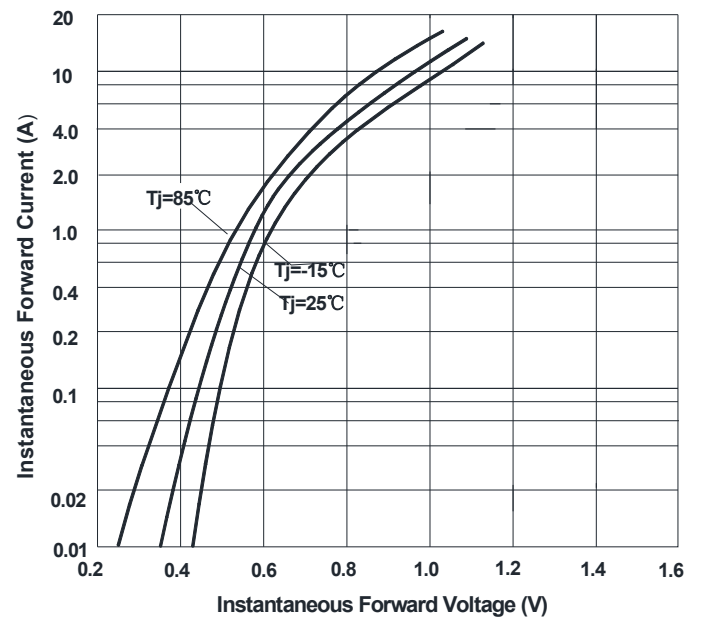


FIG.5: Typical Reverse Characteristics

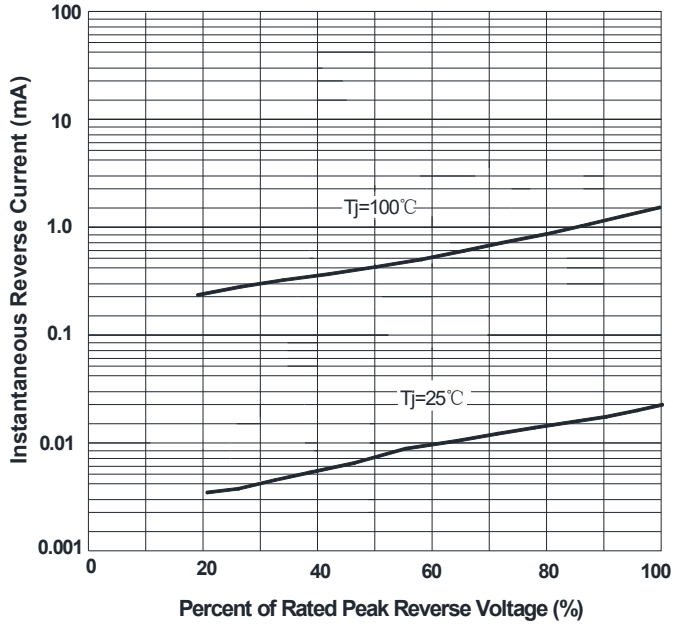
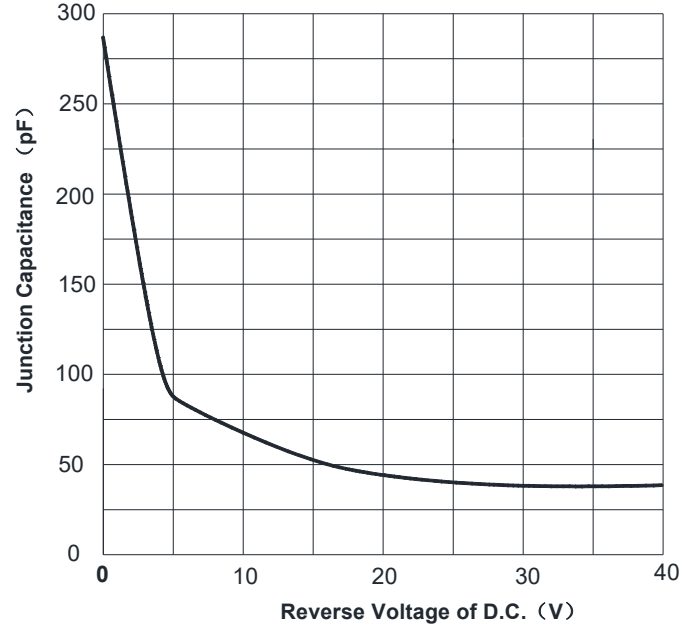
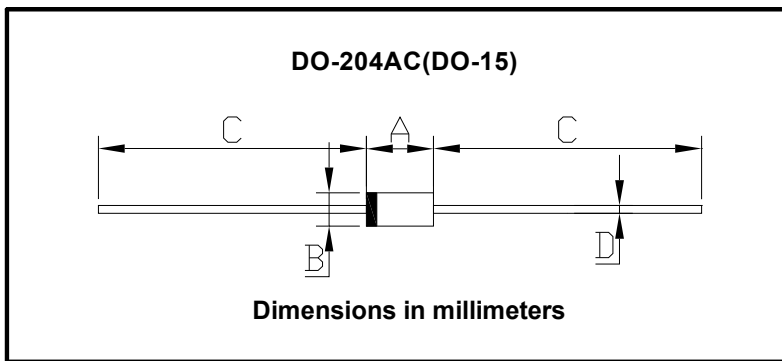


FIG.6: C_T - V_R Curve



■ Outline Dimensions



| DO-204AC(DO-15) | | |
|-----------------|------|------|
| Dim | Min | Max |
| A | 5.80 | 7.60 |
| B | 2.60 | 3.60 |
| C | 25.4 | / |
| D | 0.70 | 0.90 |



SR260T

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