

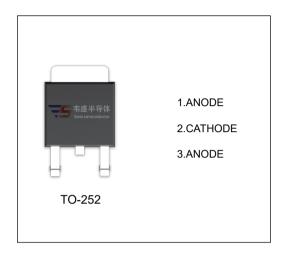
SBDD2060CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

| I ₀ | 20 (2×10) A | | | | |
|---------------------|------------------|--|--|--|--|
| V_{RRM} | 60 V | | | | |
| T _j | 150 ℃ | | | | |
| V _{F(typ)} | 0.62V (@Tj=125℃) | | | | |

FEATURES

- Low Power Loss, High Efficiency
- Guard Ring Die Construction for Transient Protection
- High Current Capability and Low Forward Voltage Drop



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

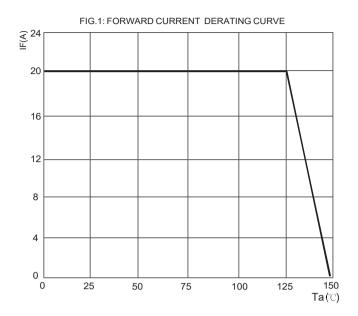
| Symbol | Parameter | Value | Unit |
|---------------------|--|----------|------|
| V_{RRM} | Peak repetitive reverse voltage | | V |
| V _{RWM} | Working peak reverse voltage | 60 | |
| V _R | DC blocking voltage | | |
| V _{R(RMS)} | RMS reverse voltage | 42 | V |
| Io | Average rectified output current | 20 | Α |
| I _{FSM} | Non-Repetitive peak forward surge current (8.3ms half sine wave) | 150 | А |
| R _O JC | Thermal resistance from junction to case | 5.0 | °C/W |
| R _{⊙JA} | Thermal resistance from junction to ambient | 100 | °C/W |
| T _j | Junction temperature | 150 | ℃ |
| T _{stg} | Storage temperature | -55~+150 | °C |

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

| Parameter | Symbol | Test conditions | | Min | Тур | Max | Unit |
|-----------------|-------------------|-----------------------|----------|-----|------|------|------|
| Reverse voltage | V _(BR) | I _R =0.1mA | | 60 | | | V |
| Reverse current | I _R | V _R =60V | Tj =25℃ | | 5.0 | 100 | uA |
| | | | Tj =125℃ | | 5.0 | | mA |
| Forward voltage | V _F | I _F =5A | Tj =25℃ | | 0.59 | | V |
| | | | Tj =125℃ | | 0.53 | | V |
| | | I _F =10A | Tj =25℃ | | 0.71 | 0.78 | V |
| | | | Tj =125℃ | | 0.62 | | V |

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.





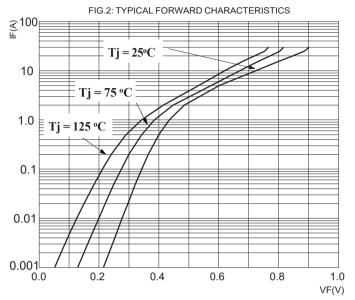


FIG.3: TOTAL CAPACITANCE DERATING CURVE

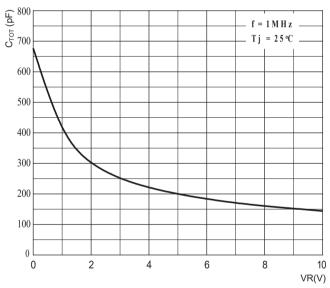


FIG.4: TYPICAL REVERSE CHARACTERISTICS

