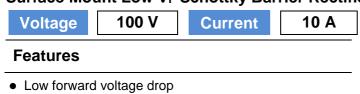


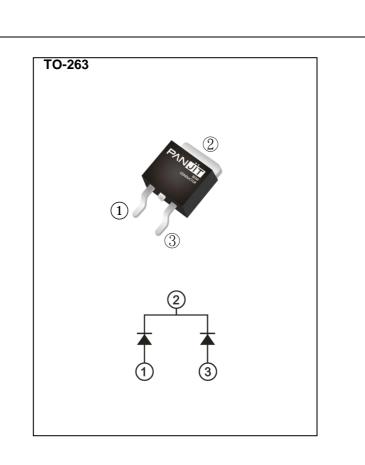
Surface Mount Low V_F Schottky Barrier Rectifier



- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : TO-263 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 1.38 grams



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS | | |
|---|------------------|---------|-------|------|--|
| Maximum Repetitive Peak Reverse Voltage | | Vrrm | 100 | V | |
| Maximum RMS Voltage | | Vrms | 70 | V | |
| Maximum DC Blocking Voltage | | VDC | 100 | V | |
| | per device | | 10 | | |
| Maximum Average Forward Current | per diode | lf(AV) | 5 | A | |
| Peak Forward Surge Current : 8.3 ms Single Half Sir | | 100 | | | |
| Superimposed On Rated Load | IFSM | | A | | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$ | | | | _ | |
| | | CJ | 630 | pF | |
| | (Note 1) | Reja | 40 | | |
| Typical Thermal Resistance | (Note 2) | Rejc | 9 | °C/W | |
| | (Note 2) | Rejl | 6.5 | | |
| Operating Junction Temperature Range | TJ | -55~150 | °C | | |
| Storage Temperature Range | T _{STG} | -55~150 | °C | | |

NOTES : 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

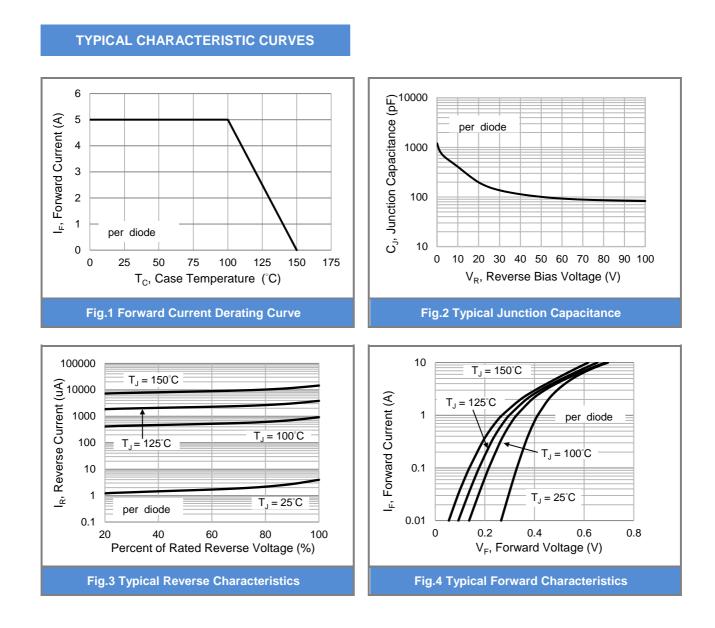


Electrical Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-------------------------------------|--------|--|------|------|------|-------|
| | VF | I _F = 1 A, T _J = 25 °C | - | 0.42 | 0.47 | V |
| | | I _F = 3 A, T _J = 25 °C | - | 0.5 | 0.55 | |
| Forward Voltage | | I _F = 5 A, T _J = 25 °C | - | 0.57 | 0.62 | |
| | | I _F = 1 A, T _J = 125 °C | - | 0.3 | 0.35 | |
| | | I _F = 3 A, T _J = 125 °C | - | 0.42 | 0.47 | |
| | | I _F = 5 A, T _J = 125 °C | - | 0.51 | 0.56 | |
| | IR | V _R = 80 V, T _J = 25 °C | - | 3 | 18 | |
| Reverse Current ^(Note 3) | | V _R = 100 V, T _J = 25 °C | - | 4 | 40 | uA |
| | | V _R = 100V,T _J = 125 °C | - | 4 | 24 | mA |

NOTES : 3. Short duration pulse test used to minimize self-heating effect.



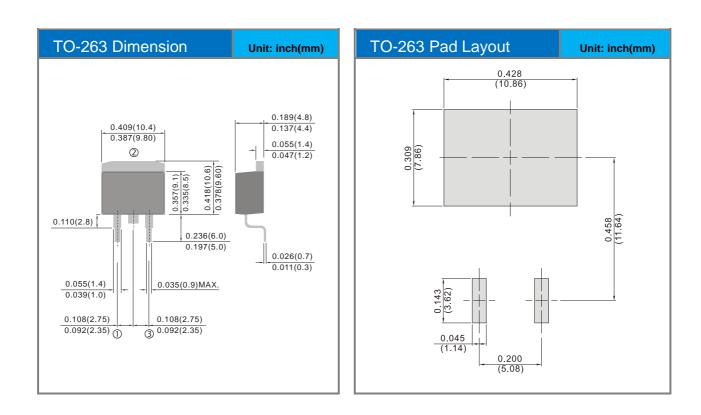




Product and Packing Information

| Part No. | Package Type | Packing Type | Marking | |
|--------------|--------------|--------------------|------------|--|
| STRN10100XCB | TO-263 | 800 pcs / 13" reel | TN10100XCB | |

Packaging Information & Mounting Pad Layout





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