

Switchmode Power Rectifier Schottky Diode [1N5832]

Technical Data

Typical applications : Ideally suited for use as Rectifiers in low voltage , High frequency invertors , Free wheeling diodes and polarity protection diodes.

| Type No. | V_{RRM} (Volts) | V_{RSM} (Volts) |
|--|----------------------|----------------------|
| 1N5832 | 20 | 24 |
| V_{RRM} = Peak Repetitive Reverse Voltage V_{RSM} = Non-Repetitive Peak Reverse Voltage | | |

Features

- Extremely low V_F
- Low power loss / High efficiency
- **Low stored charge , Majority carrier conduction**
- **High surge capacity**

| Symbol | Conditions | Units |
|--|--|--|
| $I_{F(AV)}$ | $T_{case} = 100\text{ }^\circ\text{C}$ | 40 A |
| I_{FSM} | $T_c = 25\text{ }^\circ\text{C}$; 10 ms | 800 A |
| I_{RRM} | $T_c = 25\text{ }^\circ\text{C}$ $T_c = 100\text{ }^\circ\text{C}$ | 20 mA max 150 mA max |
| V_F | $T_{vj} = 25\text{ }^\circ\text{C}$; $I_F = 10\text{ A}$ $T_{vj} = 25\text{ }^\circ\text{C}$; $I_F = 40\text{ A}$ $T_{vj} = 25\text{ }^\circ\text{C}$; $I_F = 125\text{ A}$ | 0.360 V max 0.520 V max 0.980 V max |
| $R_{th(j-c)}$ T_{vj} T_{stg} | | 1.0 $^\circ\text{C/W}$ 150 $^\circ\text{C}$ -65.....+ 125 $^\circ\text{C}$ |
| Mounting torque | | 4 Nm |
| Weight | Approx | 30 g |

