

# Switchmode Power Rectifier Schottky Diode [1N5834 ]

## 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 <sub>RRM</sub> (Volts)	V <sub>RSM</sub> (Volts)
1N5834	40	48
V <sub>RRM</sub> = Peak Repetitive Reverse Voltage V <sub>RSM</sub> = Non-Repetitive Peak Reverse Voltage		

### Features

- Extremely low V<sub>F</sub>
- Low power loss / High efficiency
- **Low stored charge , Majority carrier conduction**
- **High surge capacity**

Symbol	Conditions	Units
I <sub>F(AV)</sub>	T <sub>case</sub> = 90 °C	40 A
I <sub>FSM</sub>	T <sub>c</sub> = 25 °C; 10 ms	800 A
I <sub>RRM</sub>	T <sub>c</sub> = 25 °C T <sub>c</sub> = 100 °C	20 mA max 150 mA max
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 10 A T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 40 A T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 125 A	0.380 V max 0.590 V max 1.180 V max
R <sub>th(j-c)</sub> T <sub>vj</sub> T <sub>stg</sub>		1.0 °C/W 150 °C -65.....+ 125 ° C
Mounting torque		4 Nm
Weight	Approx	30 g

