

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}	$T_c = 25\text{ }^\circ\text{C}; 10\text{ ms}$	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

