

# Switchmode Power Rectifier Schottky Diode [1N5833 ]

## 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)
1N5833	30	36
$V_{RRM}$ = 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
$I_{F(AV)}$	$T_{case} = 95\text{ }^\circ\text{C}$	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
$V_F$	$T_{vj} = 25\text{ }^\circ\text{C}; I_F = 10\text{ A}$ $T_{vj} = 25\text{ }^\circ\text{C}; I_F = 40\text{ A}$ $T_{vj} = 25\text{ }^\circ\text{C}; I_F = 125\text{ A}$	0.370 V max 0.550 V max 1.080 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

