

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

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

Symbol	Conditions	Units
$I_{F(AV)}$	$T_{case} = 95^{\circ}C$	40 A
I_{FSM}	$T_c = 25^{\circ}C$; 10 ms	800 A
I_{RRM}	$T_c = 25^{\circ}C$ $T_c = 100^{\circ}C$	20 mA max 150 mA max
V_F	$T_{vj} = 25^{\circ}C$; $I_F = 10$ A $T_{vj} = 25^{\circ}C$; $I_F = 40$ A $T_{vj} = 25^{\circ}C$; $I_F = 125$ A	0.370 V max 0.550 V max 1.080 V max
$R_{th(j-c)}$ T_{vj} T_{stg}		1.0 $^{\circ}C/W$ 150 $^{\circ}C$ -65.....+ 125 $^{\circ}C$
Mounting torque		4 Nm
Weight	Approx	30 g

