

Switchmode Power Rectifier Schottky Diode [1N5830]

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)
1N5830	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} = 85 °C	25 A
I _{FSM}	T _c = 25 °C; 10 ms	800 A
I _{RRM}	T _c = 25 °C T _c = 100 °C	20 mA max 150 mA max
V _F	T _{vj} = 25 °C; I _F = 10 A T _{vj} = 25 °C; I _F = 25 A T _{vj} = 25 °C; I _F = 78.5 A	0.370 V max 0.460 V max 0.770 V max
R _{th(j-c)} T _{vj} T _{stg}		1.75 °C/W 150 °C -65.....+ 125 ° C
Mounting torque		2 Nm
Weight	Approx	10 g

