

Silicon Power Schottky Diode

V_{RRM} = 20 V - 40 V
I_F = 15 A

Features

- High Surge Capability
- Types up to 40V V_{RRM}

DO-5 Package



Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	1N5826 (R)	1N5827 (R)	1N5828 (R)	Unit
Repetitive peak reverse voltage	V _{RRM}		20	30	40	V
RMS reverse voltage	V _{RMS}		14	21	28	V
DC blocking voltage	V _{DC}		20	30	40	V
Continuous forward current	I _F	T _C ≤ 100 °C	15	15	15	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	500	500	500	A
Operating temperature	T _j		-65 to 150	-65 to 150	-65 to 150	°C
Storage temperature	T _{stg}		-65 to 175	-65 to 175	-65 to 175	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	1N5826 (R)	1N5827 (R)	1N5828 (R)	Unit
Diode forward voltage	V _F	I _F = 15 A, T _j = 25 °C	0.44	0.47	0.5	V
Reverse current	I _R	V _R = 20 V, T _j = 25 °C	10	10	10	mA
		V _R = 20 V, T _j = 125 °C	250	250	250	

Thermal characteristics

Thermal resistance, junction - case	R _{thJC}		1.8	1.8	1.8	°C/W
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