

Silicon Power Schottky Diode

V_{RRM} = 35 V - 45 V
I_F = 30 A

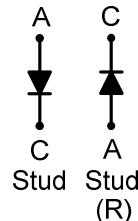
Features

- High Surge Capability
- Types up to 45 V V_{RRM}

DO-4 Package

Note:

1. Standard polarity: Stud is cathode.
2. Reverse polarity (R): Stud is anode.
3. Stud is base.



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

Parameter	Symbol	Conditions	SD41 (R)	SD4145 (R)	Unit
Repetitive peak reverse voltage	V _{RRM}		35	45	V
RMS reverse voltage	V _{RMS}		25	32	V
DC blocking voltage	V _{DC}		35	45	V
Continuous forward current	I _F	T _C ≤ 100 °C	30	30	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	600	600	A
Operating temperature	T _j		-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 175	-55 to 175	°C

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

Parameter	Symbol	Conditions	SD41 (R)	SD4145 (R)	Unit
Diode forward voltage	V _F	I _F = 30 A, T _j = 25 °C	0.68	0.68	V
Reverse current	I _R	V _R = 35 V, T _j = 25 °C V _R = 35 V, T _j = 125 °C	1.5 25	1.5 25	mA

Thermal characteristics

Thermal resistance, junction - case	R _{thJC}		1.5	1.5	°C/W
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