

Silicon Power Schottky Diode

$V_{RRM} = 30\text{ V} - 40\text{ V}$

$I_F = 50\text{ A}$

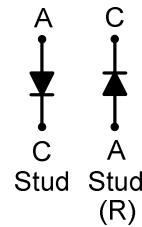
Features

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

DO-5 Package

Note:

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



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

Parameter	Symbol	Conditions	1N6097 (R)	1N6098 (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		30	40	V
RMS reverse voltage	V_{RMS}		21	28	V
DC blocking voltage	V_{DC}		30	40	V
Continuous forward current	I_F	$T_C \leq 100\text{ °C}$	50	50	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	400	400	A
Operating temperature	T_j		-65 to 150	-65 to 150	°C
Storage temperature	T_{stg}		-65 to 175	-65 to 175	°C

Electrical characteristics, at $T_j = 25\text{ °C}$, unless otherwise specified

Parameter	Symbol	Conditions	1N6097 (R)	1N6098 (R)	Unit
Diode forward voltage	V_F	$I_F = 50\text{ A}$, $T_j = 25\text{ °C}$	0.7	0.7	V
Reverse current	I_R	$V_R = 30\text{ V}$, $T_j = 25\text{ °C}$ $V_R = 30\text{ V}$, $T_j = 125\text{ °C}$	5 250	5 250	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		1.0	1.0	°C/W
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