

Silicon Power Schottky Diode

$V_{RRM} = 20 \text{ V - } 40 \text{ V}$
 $I_F = 25 \text{ A}$

Features

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

DO-4 Package



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

Parameter	Symbol	Conditions	1N6095 (R)	1N6096 (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	$T_C \leq 100^\circ\text{C}$	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	400	400	A
Operating temperature	T_j		-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 175	-55 to 175	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	1N6095 (R)	1N6096 (R)	Unit
Diode forward voltage	V_F	$I_F = 25 \text{ A}, T_j = 25^\circ\text{C}$	0.58	0.58	V
Reverse current	I_R	$V_R = 20 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 20 \text{ V}, T_j = 125^\circ\text{C}$	2 250	2 250	mA
Thermal characteristics					
Thermal resistance, junction - case	R_{thJC}		1.8	1.8	$^\circ\text{C/W}$

