



America Semiconductor

Silicon Power Schottky Diode

**1N6095 thru
1N6096R**
 $V_{RRM} = 20\text{ V} - 40\text{ V}$
 $I_F = 25\text{ A}$

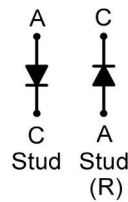
Features

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

DO-4 Package

Note:

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



Maximum ratings, at $T_j = 25\text{ }^\circ\text{C}$, 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	$T_C \leq 100\text{ }^\circ\text{C}$	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$, $t_p = 8.3\text{ ms}$	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 $T_j = 25\text{ }^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	1N6095 (R)	1N6096 (R)	Unit
Diode forward voltage	V_F	$I_F = 25\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$	0.58	0.58	V
Reverse current	I_R	$V_R = 20\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$ $V_R = 20\text{ V}$, $T_j = 125\text{ }^\circ\text{C}$	2 250	2 250	mA

Thermal characteristics

Parameter	Symbol	Conditions	1N6095 (R)	1N6096 (R)	Unit
Thermal resistance, junction - case	R_{thJC}		1.8	1.8	$^\circ\text{C/W}$

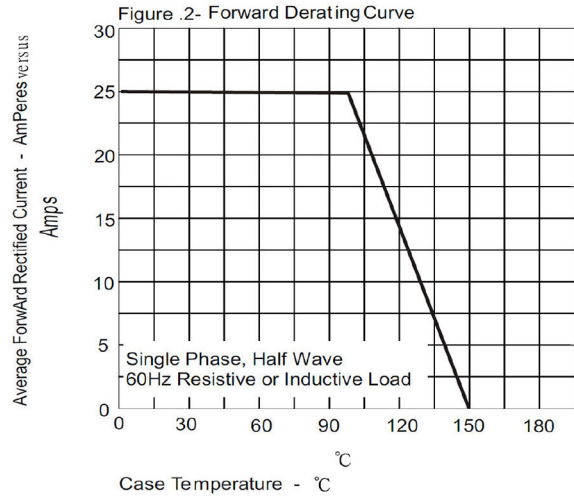
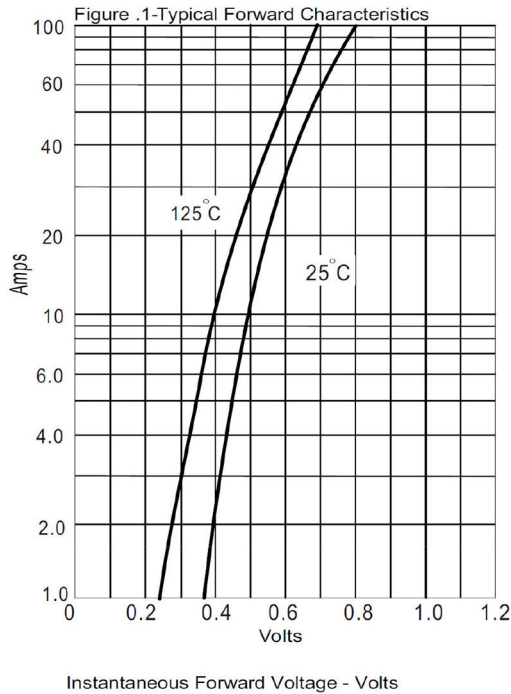




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InStantaneous Forward Current - Amperes vs. Volts



Peak Forward Surge Current - Amperes vs. Cycles

