



Silicon Standard Recovery Diode

**1N1199A thru
1N1206AR**

$V_{RRM} = 50 \text{ V} - 1000 \text{ V}$
 $I_F = 12 \text{ A}$

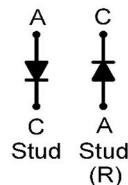
Features

- High Surge Capability
- Types up to 1000 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 $T_j = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	1N1199A(R)	1N1200A(R)	1N1202A(R)	1N1204A(R)	1N1206A(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	600	V
RMS reverse voltage	V_{RMS}		35	70	140	280	420	V
DC blocking voltage	V_{DC}		50	100	200	400	600	V
Continuous forward current	I_F	$T_c \leq 150^\circ\text{C}$	12	12	12	12	12	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_c = 25^\circ\text{C}$, $t_p = 8.3 \text{ ms}$	240	240	240	240	240	A
Operating temperature	T_j		-65 to 200	$^\circ\text{C}$				
Storage temperature	T_{stg}		-65 to 200	$^\circ\text{C}$				

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

Parameter	Symbol	Conditions	1N1199A(R)	1N1200A(R)	1N1202A(R)	1N1204A(R)	1N1206A(R)	Unit
Diode forward voltage	V_F	$I_F = 12 \text{ A}$, $T_j = 25^\circ\text{C}$	1.1	1.1	1.1	1.1	1.1	V
Reverse current	I_R	$V_R = 50 \text{ V}$, $T_j = 25^\circ\text{C}$	10	10	10	10	10	μA
		$V_R = 50 \text{ V}$, $T_j = 175^\circ\text{C}$	15	15	15	15	15	mA

Thermal characteristics

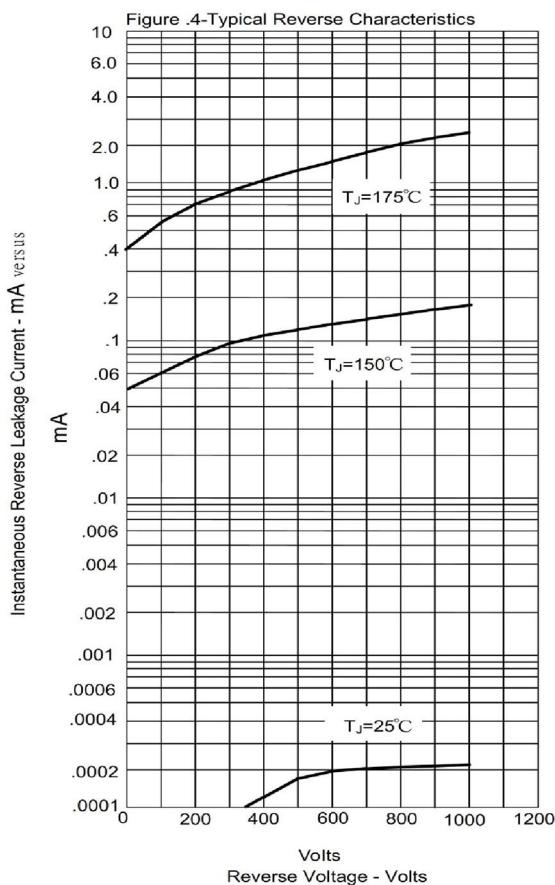
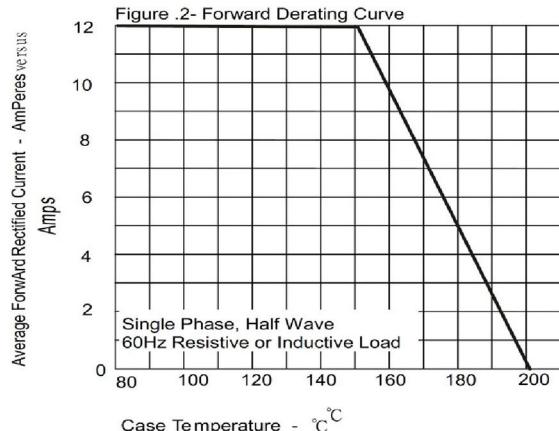
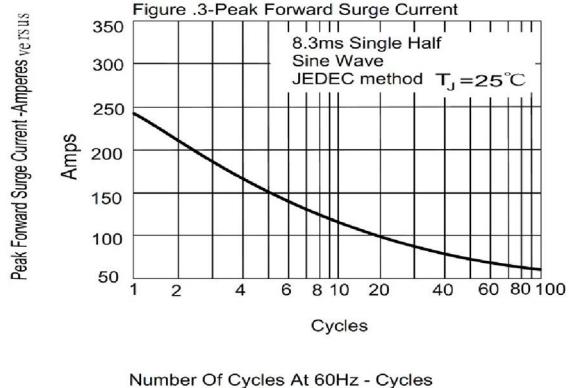
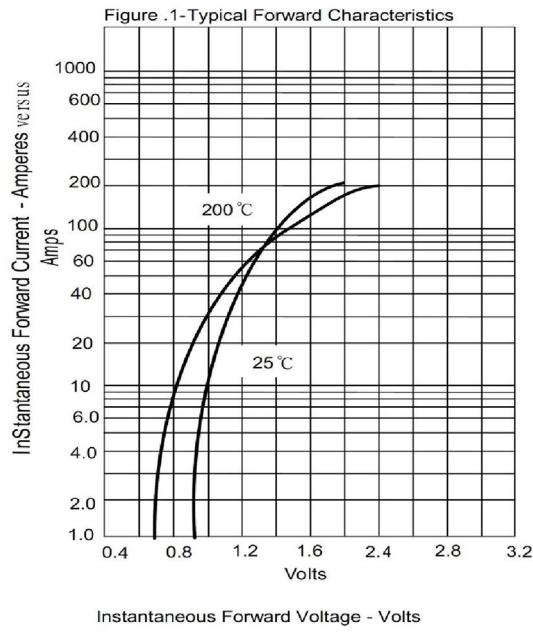
Thermal resistance, junction - case	R_{thJC}		2.00	2.00	2.00	2.00	2.00	$^\circ\text{C/W}$
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America Semiconductor

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1N1206AR



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