

## Silicon Standard Recovery Diode

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

### Features

- High Surge Capability
- Types up to 1000 V  $V_{RRM}$

**DO-4 Package**



### Maximum ratings, at $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Conditions	1N1199 (R)	1N1200 (R)	1N1202 (R)	1N1204 (R)	1N1206 (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	1N1199 (R)	1N1200 (R)	1N1202 (R)	1N1204 (R)	1N1206 (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	$I_R$	$V_R = 50 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 50 \text{ V}, T_j = 175^\circ\text{C}$	10 15	10 15	10 15	10 15	10 15	$\mu\text{A}$ 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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