

# Silicon Standard Recovery Diode

**$V_{RRM} = 50 \text{ V - } 600 \text{ V}$**   
 **$I_F = 15 \text{ A}$**

## Features

- High Surge Capability
- Types up to 600 V  $V_{RRM}$

**DO-5 Package**



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

Parameter	Symbol	Conditions	1N3212 (R)	1N3213 (R)	1N3214 (R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		400	500	600	V
RMS reverse voltage	$V_{RMS}$		280	350	420	V
DC blocking voltage	$V_{DC}$		400	500	600	V
Continuous forward current	$I_F$	$T_C \leq 150^\circ\text{C}$	15	15	15	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	297	297	297	A
Operating temperature	$T_j$		-65 to 175	-65 to 175	-65 to 175	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-65 to 175	-65 to 175	-65 to 175	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	1N3212 (R)	1N3213 (R)	1N3214 (R)	Unit
Diode forward voltage	$V_F$	$I_F = 15 \text{ A}, T_j = 25^\circ\text{C}$	1.5	1.5	1.5	V
Reverse current	$I_R$	$V_R = 50 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 50 \text{ V}, T_j = 150^\circ\text{C}$	10	10	10	$\mu\text{A}$

## Thermal characteristics

Thermal resistance, junction - case	$R_{thJC}$	0.65	0.65	0.65	$^\circ\text{C/W}$
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