



$$V_{RRM} = 50 \text{ V} - 600 \text{ V}$$

$$I_F = 15 \text{ A}$$

Silicon Standard Recovery Diode

Features

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

Note:

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



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_{FSM}	$T_C = 25^\circ\text{C}$, $t_p = 8.3 \text{ ms}$	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

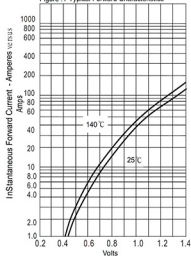
Parameter	Symbol	Conditions	1N3212 (R)	1N3213 (R)	1N3214 (R)	Unit
Diode forward voltage	V_F	$I_F = 15 \text{ A}$, $T_J = 25^\circ\text{C}$	1.5	1.5	1.5	V
Reverse current	I_R	$V_R = 50 \text{ V}$, $T_J = 25^\circ\text{C}$	10	10	10	μA
		$V_R = 50 \text{ V}$, $T_J = 150^\circ\text{C}$	10	10	10	mA

Thermal characteristics

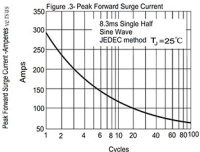
Thermal resistance, junction - ca	$R_{\theta JC}$		0.65	0.65	0.65	$^\circ\text{C/W}$
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Figure 1-Typical Forward Characteristics

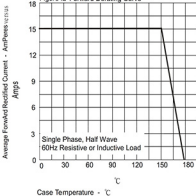


Instantaneous Forward Voltage - Volts



Number Of Cycles At 60Hz - Cycles

Figure 2-Forward Derating Curve



Case Temperature - °C

Figure 4-Typical Reverse Characteristics

