

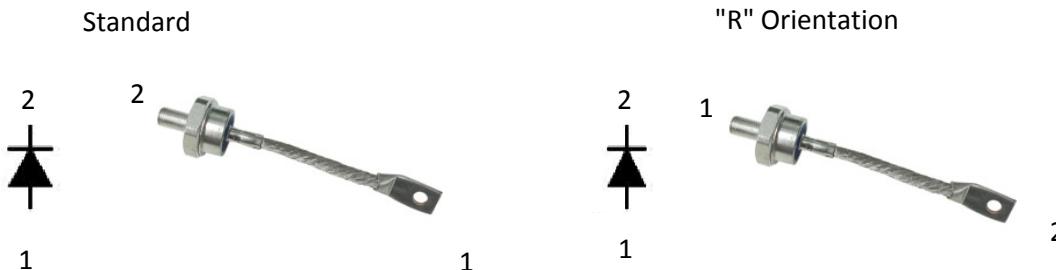
Silicon Standard Recovery Diode

$V_{RRM} = 200 \text{ V - } 1400 \text{ V}$
 $I_F = 100 \text{ A}$

Features

- High Surge Capability
- Types up to 1400 V V_{RRM}

DO-8 Package



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

Parameter	Symbol	Conditions	1N3295A(R)	1N3296A(R)	1N3297A(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		1000	1200	1400	V
DC blocking voltage	V_{DC}		1000	1200	1400	V
Continuous forward current	I_F	$T_C \leq 130^\circ\text{C}$	100	100	100	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	2300	2300	2300	A
I_{2t} for fusing	I_{2t}	60 Hz Half wave	22000	22000	22000	A^2sec
Operating temperature	T_j		-40 to 200	-40 to 200	-40 to 200	$^\circ\text{C}$
Storage temperature	T_{stg}		-40 to 200	-40 to 200	-40 to 200	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	1N3295A(R)	1N3296A(R)	1N3297A(R)	Unit
Diode forward voltage	V_F	$I_F = 100 \text{ A}, T_j = 130^\circ\text{C}$	1.5	1.5	1.5	V
Reverse current	I_R	$V_R = V_{RRM}, T_j = 130^\circ\text{C}$	11	9	7	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		0.40	0.40	0.40	$^\circ\text{C/W}$
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Electrical Characteristics
