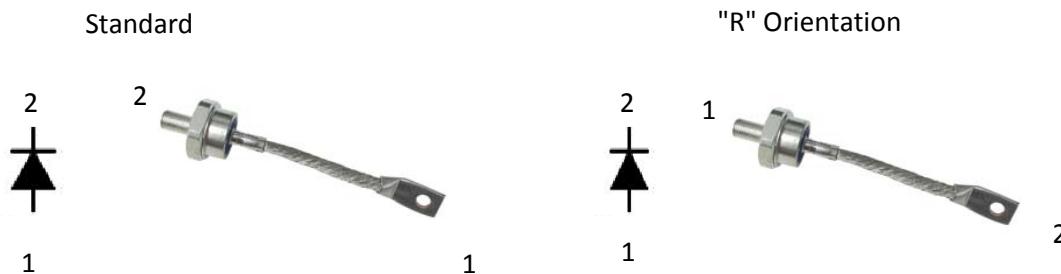


**Silicon Standard
Recovery Diode**
 $V_{RRM} = 200 \text{ V - } 1400 \text{ V}$
 $I_F = 100 \text{ A}$
Features

- 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)

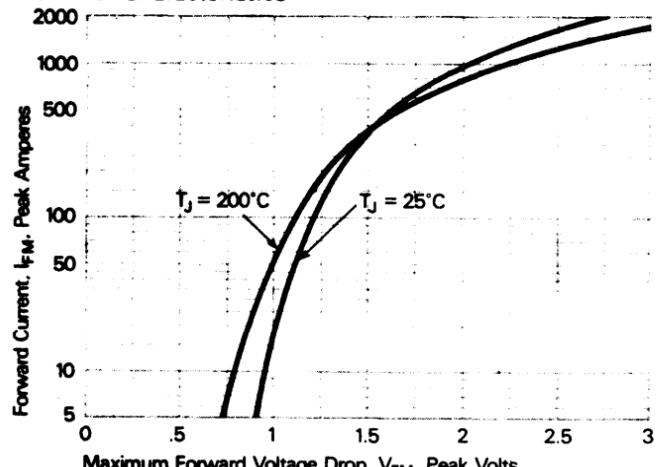
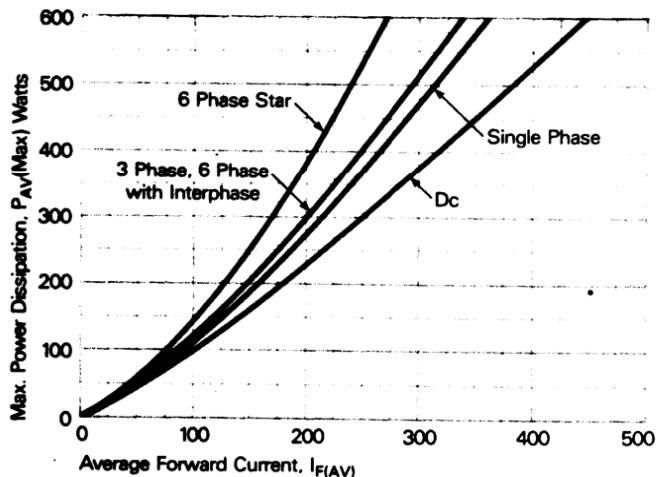
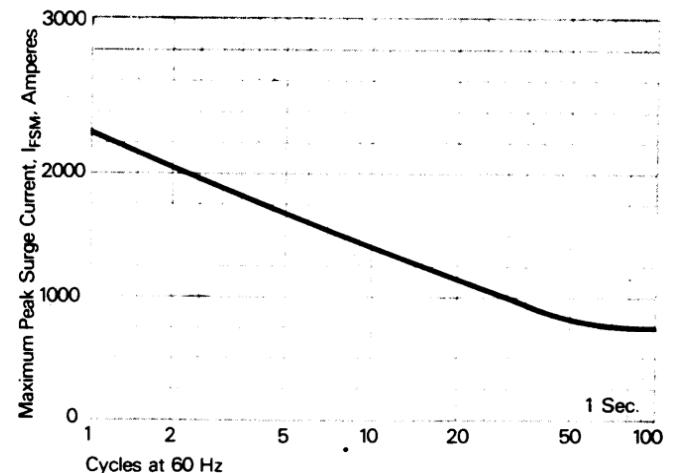
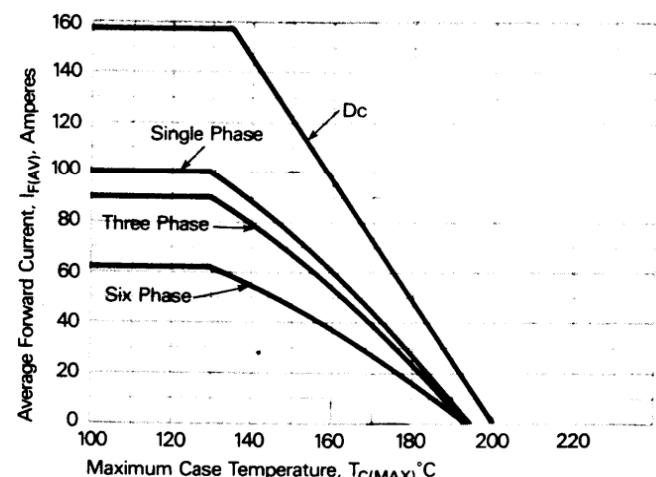
Parameter	Symbol	Conditions	1N3295A(R)	1N3296A(R)	1N3297A(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		1000	1200	1400	V
DC blocking voltage	V_{DC}		1000	1200	1400	V
Continuous forward current	I_F	$T_C \leq 130^\circ\text{C}$	100	100	100	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	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

Figure 1. Forward Current vs. Forward Voltage.

Figure 3. Power dissipation vs. Average forward current.

Figure 2. Maximum allowable surge current at rated load conditions.

Figure 4. Forward Current vs. Case Temperature.