

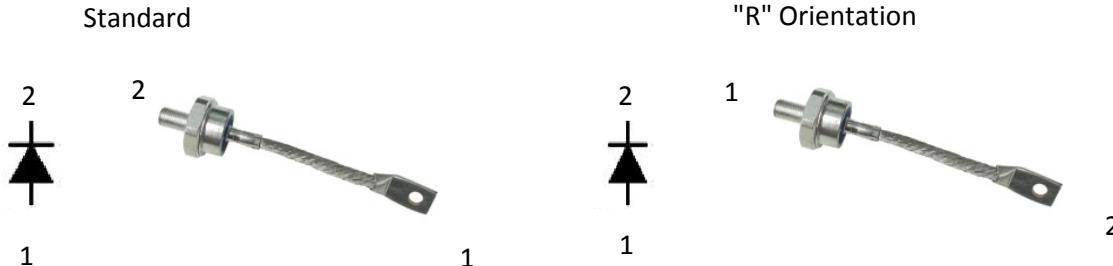
Silicon Standard Recovery Diode

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

Features

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

DO-8 Package



Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

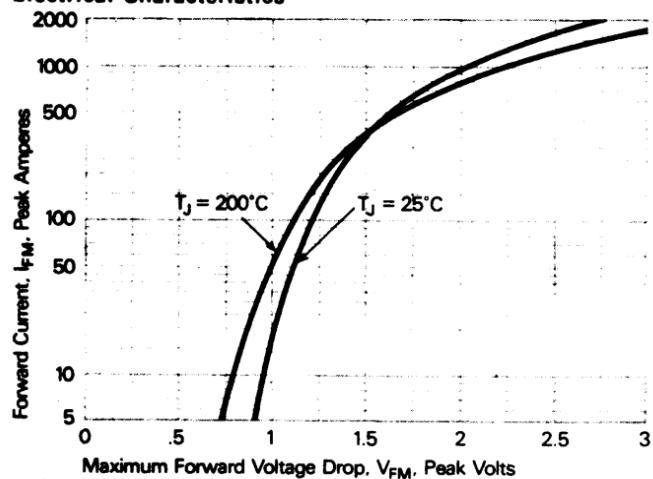
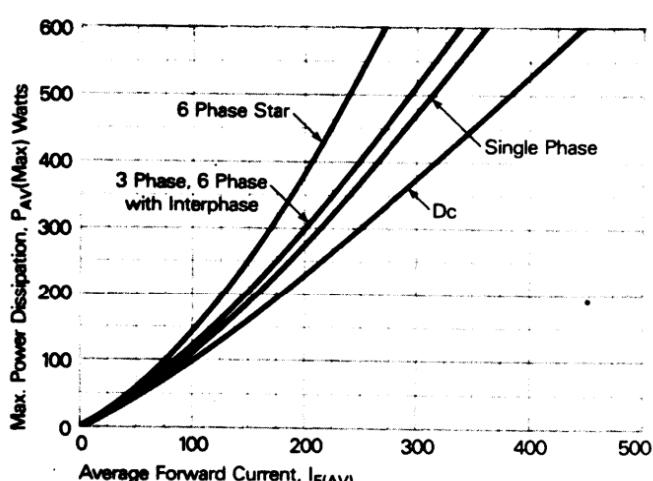
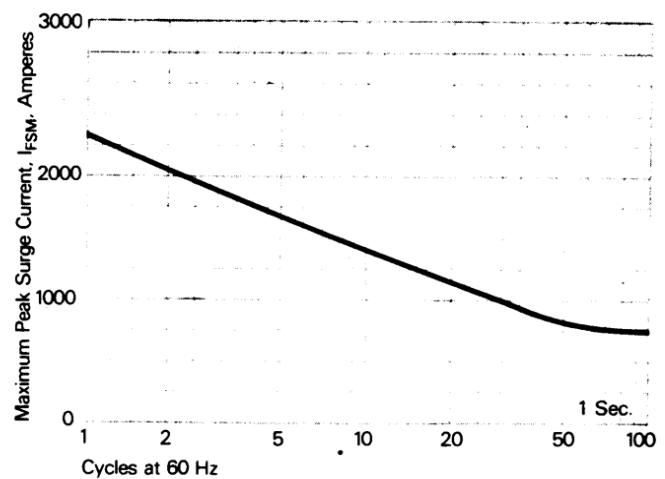
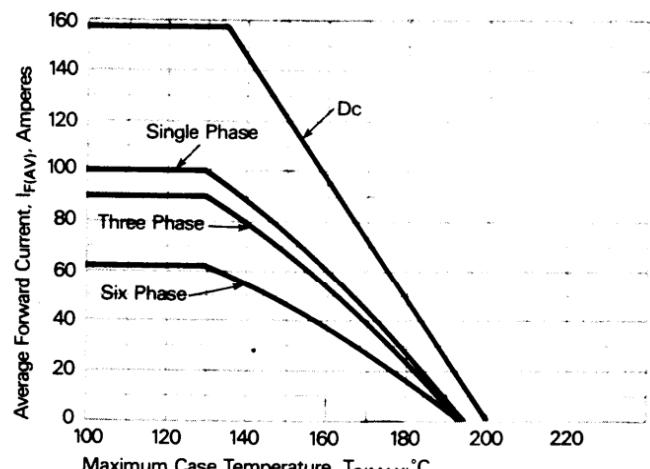
Parameter	Symbol	Conditions	1N3289A(R)	1N3291A(R)	1N3293A(R)	1N3294A(R)	Unit
Repetitive peak reverse voltage	V _{RRM}		200	400	600	800	V
DC blocking voltage	V _{DC}		200	400	600	800	V
Continuous forward current	I _F	T _C ≤ 130 °C	100	100	100	100	A
Surge non-repetitive forward current, Half Sine Wave	I _{F,SM}	T _C = 25 °C, t _p = 8.3 ms	2300	2300	2300	2300	A
I _{2t} for fusing	I _{2t}	60 Hz Half wave	22000	22000	22000	22000	A ² sec
Operating temperature	T _j		-40 to 200	-40 to 200	-40 to 200	-40 to 200	°C
Storage temperature	T _{stg}		-40 to 200	-40 to 200	-40 to 200	-40 to 200	°C

Electrical characteristics, at T_j = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	1N3289A(R)	1N3291A(R)	1N3293A(R)	1N3294A(R)	Unit
Diode forward voltage	V _F	I _F = 100 A, T _j = 130 °C	1.5	1.5	1.5	1.5	V
Reverse current	I _R	V _R = V _{RRM} , T _j = 130 °C	24	24	17	13	mA

Thermal characteristics

Thermal resistance, junction - case	R _{thJC}		0.40	0.40	0.40	0.40	°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.