

II. Schottky Rectifier

8.0A Schottky Rectifier SR820~SR8100

(Package: DO-201AD)

<p>FEATURES</p> <ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Construction utilizes void-free molded plastic technique High forward surge current capability High temperature soldering guaranteed <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : JEDEC DO-201AD molded plastic body Terminals : Plated axial leads, solderable per MIL-STD-202, Method 208 guaranteed Polarity : Color band denotes cathode end Mounting Position : Any Weight : 1.10 grams, 0.04 ounce 	<p>Case: DO-201AD Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Ratings at 25° ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	SR 820	SR 830	SR 835	SR 840	SR 845	SR 850	SR 860	SR 880	SR 8100	Units				
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	Volts				
Maximum RMS voltage	V _{RMS}	14	21	24	28	31	35	42	56	70	Volts				
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	80	100	Volts				
Maximum average forward rectified current at derating lead temperature	I _O	8.0								Amps					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150								Amps					
Maximum instantaneous forward voltage at 8.0A DC	V _F	0.65				0.85				Volts					
Maximum DC reverse current Ta = 25°C at rated DC blocking voltage Ta = 100°C	I _R	5.0								mA					
		50													
Typical thermal resistance (Note 1)	R _{th-JC}	3.0								°C/W					
Typical junction capacitance (Note 2)	C _j	700				460				PF					
Operating junction temperature range	T _j	-65 to +125				-65 to +150				°C					
Storage temperature range	T _{stg}	-65 to +150								°C					

Notes:

- Thermal resistance : Junction to Case
- Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Ratings and Characteristic Curves of SR820~SR8100

