

SR1020 THRU SR10200

10.0 AMP.Schottky Barrier Rectifiers

Features

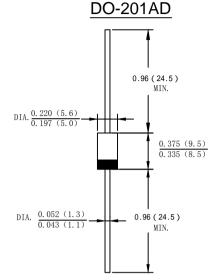
- Metal silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- · High surge capability
- · High current capability,low VF
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Plastic material-UL flammability 94V-0

Mechanical Data

· Case: Molded plastic DO-201AD

· Polarity: Color band dentes cathode end

· Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

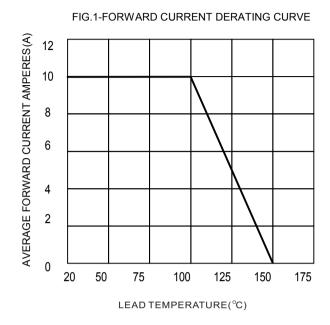
1 of capacitive load defate current by 20 %												
Type Number	SYMBOL	SR 1020	SR 1030	SR 1040	SR 1045	SR 1050	SR 1060	SR 1080	SR 10100	SR 10150	SR 10200	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	٧
Maximum RMS Voltage	V _{RMS}	14	21	28	31.5	35	42	56	70	105	140	٧
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	٧
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@T∟=100°C	IF(AV)	10.0									Α	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I FSM	150										А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	93.375										A ² s
Forward Voltage @IF=10.0A(Note 1)	V _{FM}	0.55			0.	.7	0.85		0.92		V	
Peak Reverse Current @T _A =25°C	0.3 0.05								m ^			
At Rated DC Blocking Voltage @T _A =100°C	- I _R	10 5							mA			
Typical Junction Capacitance (Note2)	CJ	450									pF	
Typical Thermal Resistance Junction to case	Reja	3.0										°C/W
Operating Temperature Range	TJ	-55 to +150										$^{\circ}$ C
/Storage Temperature Range	T _{STG}	-55 to +150										$^{\circ}\mathbb{C}$

Note:1. 300us Pulse Width,2%Duty Cycle

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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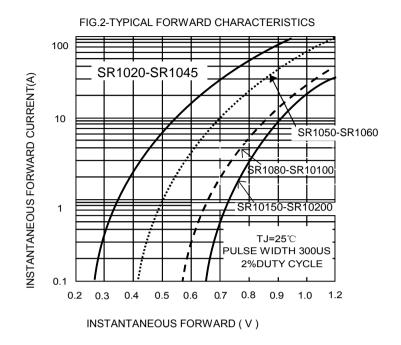
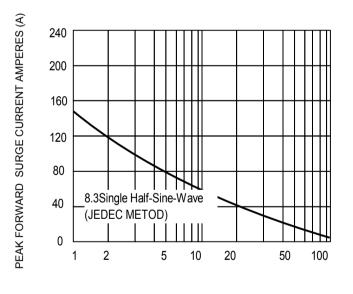
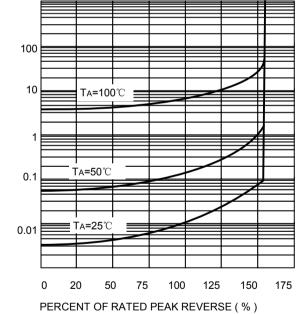


FIG.3-MAXIMUM NON-REPETITVE SURGE



INSTANTANEOUS REVERSE CURRENT(mA)

FIG.4-TYPICAL REVERSE CHARACTERISTICS





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