

SR1045L THRU SR10100L

10.0 AMP. LOW VF Schottky Barrier Rectifiers

Features

Plastic package has Underwriters Laboratory
Flammability Classification 94V-0 utilizing
Flame Retardant Epoxy Molding Compound.

- · Guard ring for overvoltage protection
- High current capability, low forward voltage drop
- · Low power loss, high efficiency
- · High surge capability

Mechanical Data

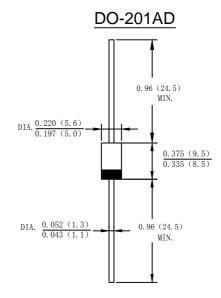
· Case: Molded plastic D0-201AD

 Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

· Lead Free: For RoHS/Lead Free Version



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%

Parameter		Symbol	SR1045L	SR1050L	SR1060L	SR1080L	SR10100L	Unit
Peak Repetitive Reverse Voltage		V_{RRM}						
Working Peak Reverse Voltage		V_{RWM}	45	50	60	80	100	V
DC blocking voltage		V_{DC}						
RMS Rectified Voltage		$V_{R(RMS)}$	32	35	42	56	70	٧
Average Rectified Output Current (N	Note1)	IF(AV)	10					Α
Non-Repetitive Peak Forward Surge8.3ms								
Single Half Sine-Wave Superimposed on rated		lгsм	150					Α
load(JEDEC Method) (N	Note2)							
I ² t Rating for Fusing (t < 8.3ms)		l ² t	93.375					A ² s
Forward Voltage Drop T _A =25 °C @IF=10A		VFM		0.50	0.55	0.7	' 5	V
	=25°C =100°C	lr		0.3 15			mA	
Typical Thermal Resistance		Reja	80					°C/W
Junctionto Ambient		Rejl	10					C/VV
Operating junction temperature range		TJ	-55 to +150					°C
storage temperature range		Тѕтс		-55 to +150				°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

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

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FIG. 1 - FORWARD CURRENT DERATING CURVE

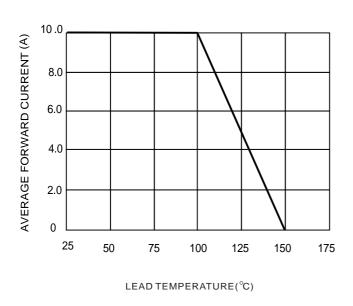


Fig3: Surge Forward Current Capadility

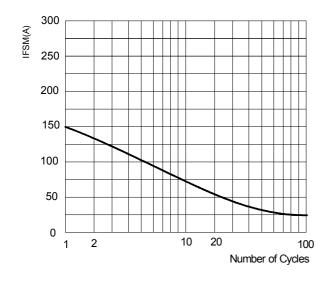


Fig2: Instantaneous Forward Voltage

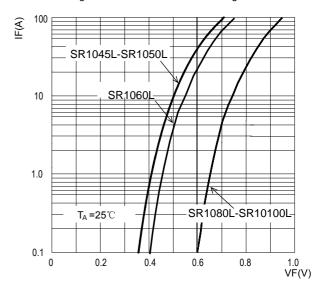
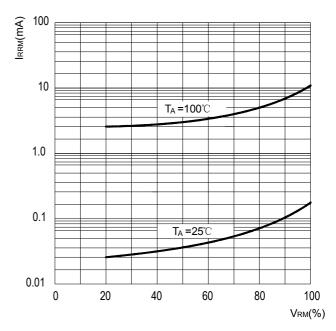


Fig4: Typical Reverse Characteristics





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