

# **SR220 THRU SR2250**

2.0 AMP. Schottky Barrier Rectifiers

#### **Features**

Low forward voltage drop

· High current capability

· High reliability

· High surge current capability

· Plastic material-UL flammability 94V-0

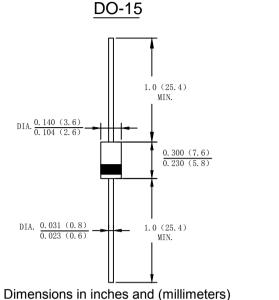
### **Mechanical Data**

 Case: Molded plastic DO-15

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

· Polarity: Color band dentes cathode end

· Mounting Position: Any



### **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%

Type Number	SYMBOL	SR 220	SR 230	SR 240	SR 245	SR 250	SR 260	SR 280	SR 2100	SR 2150	SR 2200	SR 2250	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	26	31,5	35	42	56	80	105	140	175	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current (Note 1) @T∟=100°C	IF(AV)	2.0											Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	l <sub>FSM</sub>	60											А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	14.94 A											A <sup>2</sup> s
Forward Voltage @IF=2.0A	V <sub>FM</sub>	0.55				0	.7	0.	85	5 0.92		0.95	V
Peak Reverse Current @T <sub>A</sub> =25°C		0.1 0.05											
At Rated DC Blocking Voltage @T <sub>A</sub> =100°C	- I <sub>R</sub>	10.0 5.0										-  mA	
Typical Junction Capacitance	Сл	220						180					pF
Typical Thermal Resistance Junction to Ambient(Note 2)	R <sub>θJA</sub>	75.0											°C/W
Operating Temperature Range	TJ	-55 to + 150										$^{\circ}$	
Storage Temperature Range	Тѕтс	-55 to + 150 ℃											

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

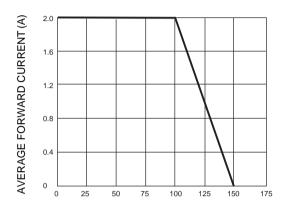
2.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas

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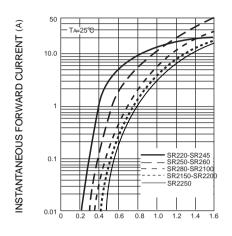
# **SR220 THRU SR2250**

FIG. 1 – FORWARD CURRENT DERATING CURVE



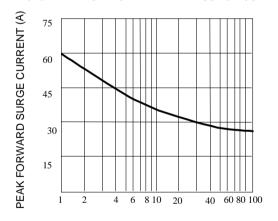
LEAD TEMPERATURE, ℃

FIG.2-TYPICAL FORWARD CHARACTERISTICS



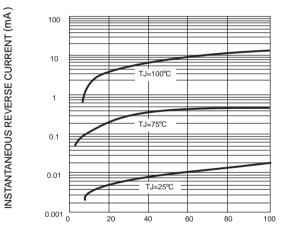
INSTANTANEOUS FORWARD ( V )

FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG. 4 - TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (%)

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