

## II. Schottky Rectifier

### 2.0A Schottky Rectifier SR220~SR2200

(Package: DO-15)

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>• Metal silicon junction, majority carrier conduction</li> <li>• Low power loss, high efficiency</li> <li>• High forward surge current capability</li> <li>• High temperature soldering guaranteed</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case : JEDEC DO-15 molded plastic body</li> <li>• Terminals : Plated axial leads, solderable per MIL-STD-202E, Method 208C guaranteed</li> <li>• Polarity : Color band denotes cathode end</li> <li>• Mounting Position : Any</li> <li>• Weight : 0.35 grams</li> </ul>	<p>Case: DO-15 Dimensions in inches and (millimeters)</p>
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### Ratings & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

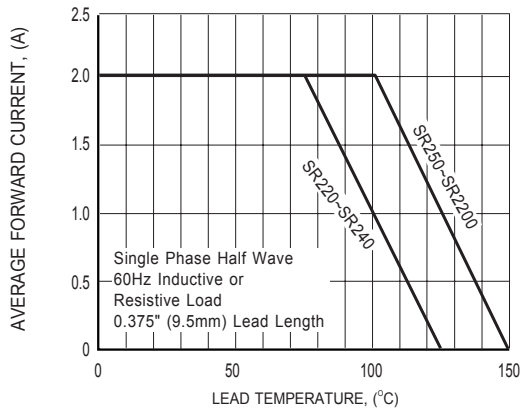
Characteristic	Symbol	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2100	SR 2150	SR 2200	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current at derating lead temperature	$I_O$	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60									Amps
Maximum instantaneous forward voltage at 2.0A DC	$V_F$	0.55		0.70		0.85				Volts	
Maximum average reverse current at rated DC blocking voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.2									mA
		2									
Typical thermal resistance (Note 1)	Rth-JA	45									°C/W
	Rth-JL	15									
Typical junction capacitance (Note 2)	$C_j$	180									PF
Operating junction temperature range	$T_j$	-55 to +125			-55 to +150						°C
Storage temperature range	$T_{stg}$	-55 to +150									°C

Notes:

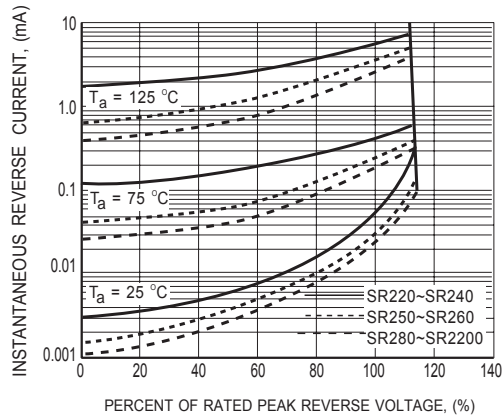
1. Thermal resistance : At 9.5mm lead lengths, PCB mounted.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

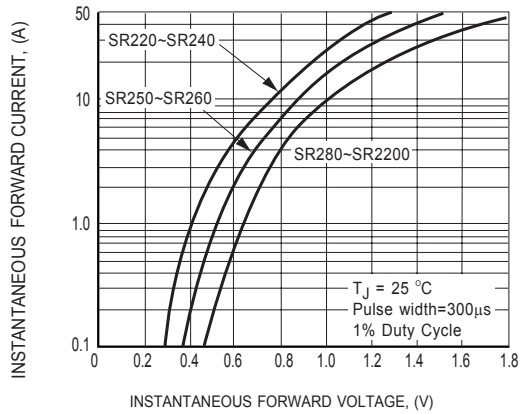
# Ratings and Characteristic Curves of SR220~SR2200



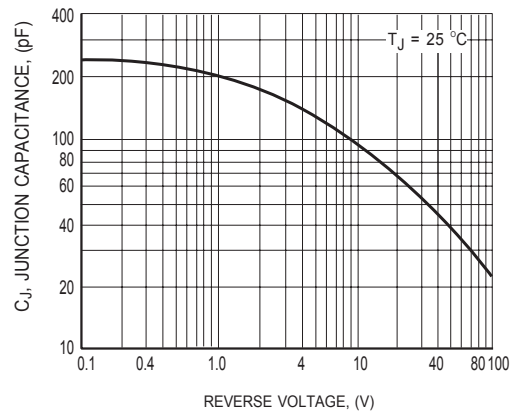
**FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE**



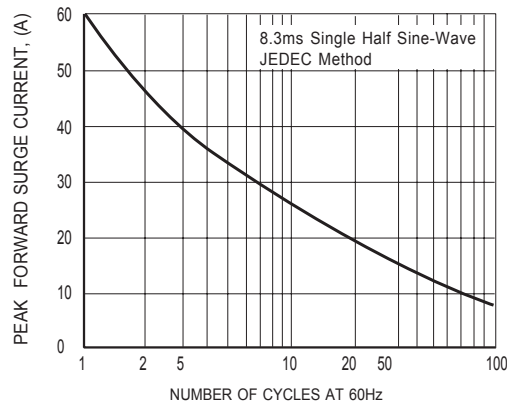
**FIG.2 TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4 TYPICAL JUNCTION CAPACITANCE**



**FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**