

## II. Schottky Rectifier

### 3.0A Schottky Rectifier SR320~SR3200

(Package: DO-201AD)

<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-201AD molded plastic body</li> <li>Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026</li> <li>Polarity : Color band denotes cathode end</li> <li>Mounting Position : Any</li> <li>Weight : 1.18 grams</li> </ul>	<p>Case: DO-201AD Dimensions in inches and (millimeters)</p>
--	--

### 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%.

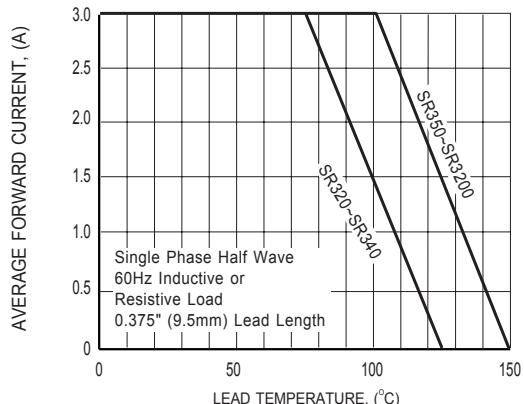
Characteristic	Symbol	SR 320	SR 330	SR 340	SR 350	SR 360	SR 380	SR 3100	SR 3150	SR 3200	Units						
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts						
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts						
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts						
Maximum average forward rectified current 0.375" (9.5mm) lead length	I <sub>o</sub>	3								Amps							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	70								Amps							
Maximum forward voltage at 3.0A DC	V <sub>F</sub>	0.55		0.70		0.85		0.90		0.95							
Maximum reverse current at rated DC blocking voltage Ta = 25°C Ta = 100°C	I <sub>R</sub>	0.5								mA							
Typical junction capacitance (Note 1)	C <sub>j</sub>	250								PF							
Typical thermal resistance (Note 2)	R <sub>th-JA</sub>	40								°C/W							
Operating junction temperature range	T <sub>j</sub>	-55 to +125			-55 to +150			°C									
Storage temperature range	T <sub>stg</sub>	-55 to +150								°C							

Notes:

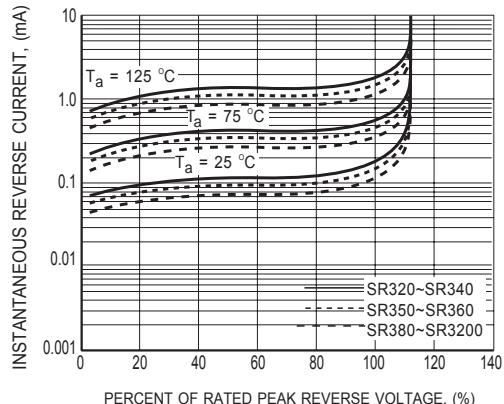
1. Measured at 1 MHz and applied reverse voltage of 4.0 volts DC.

2. Thermal resistance from junction to lead vertical PCB mounted, 0.5" (12.7mm) lead length.

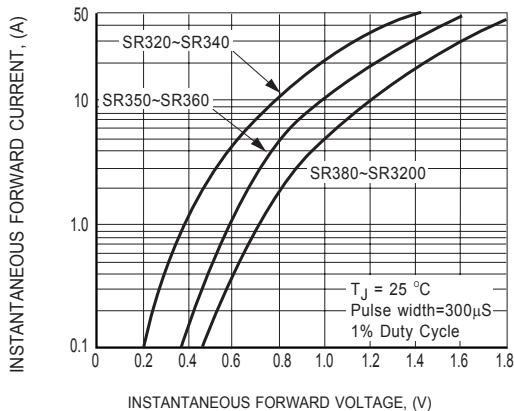
## Ratings and Characteristic Curves of SR320~SR3200



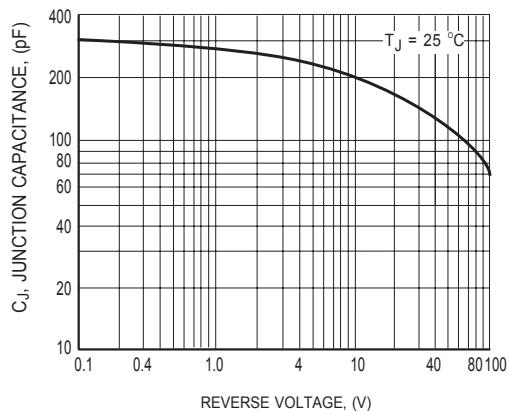
**FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE**



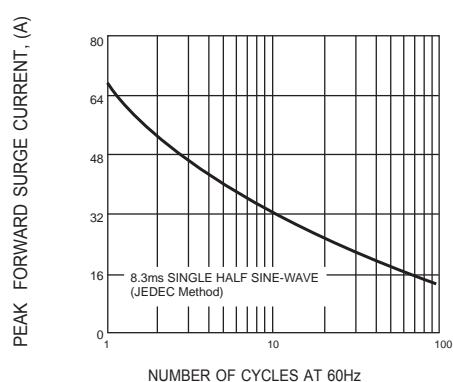
**FIG.2 TYPICAL REVERSE CHARACTERISTICS**



**FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4 TYPICAL JUNCTION CAPACITANCE**



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