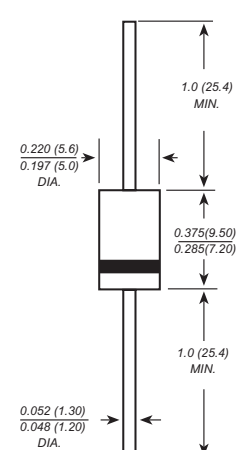


## II. Schottky Rectifier

### 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>
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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 320	SR 330	SR 340	SR 350	SR 360	SR 380	SR 3100	SR 3150	SR 3200	Units
Maximum repetitive 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 0.375" (9.5mm) lead length	$I_O$	3									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	70									Amps
Maximum forward voltage at 3.0A DC	$V_F$	0.55		0.70		0.85		0.90		0.95	Volts
Maximum reverse current at rated DC blocking voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.5									mA
		20			10						
Typical junction capacitance (Note 1)	$C_j$	250									PF
Typical thermal resistance (Note 2)	$R_{th-JA}$	40									$^\circ\text{C/W}$
Operating junction temperature range	$T_j$	-55 to +125			-55 to +150						$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-55 to +150									$^\circ\text{C}$

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.

<http://patron-components.com/>

# Ratings and Characteristic Curves of SR320~SR3200

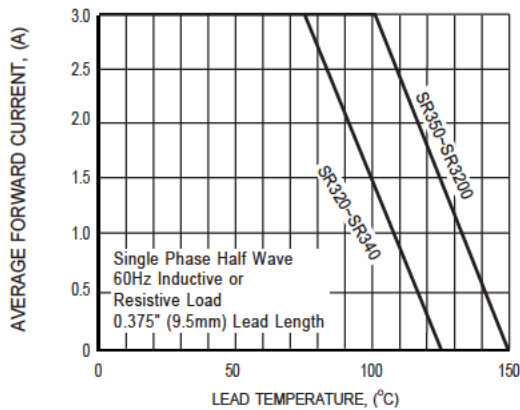


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

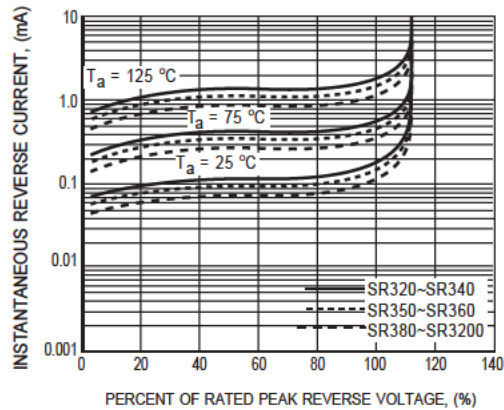


FIG.2 TYPICAL REVERSE CHARACTERISTICS

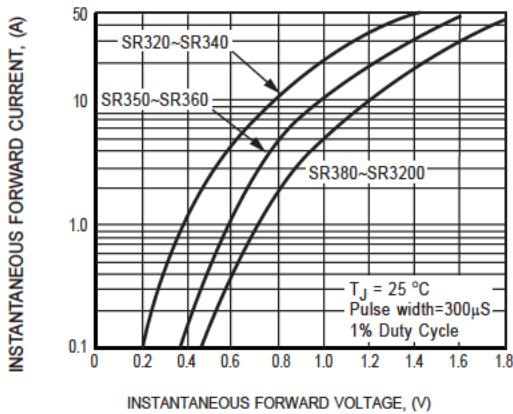


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

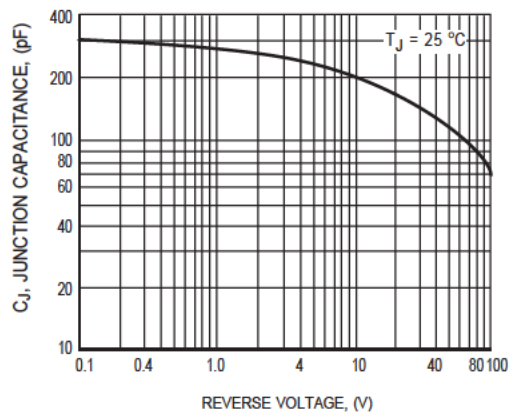


FIG.4 TYPICAL JUNCTION CAPACITANCE

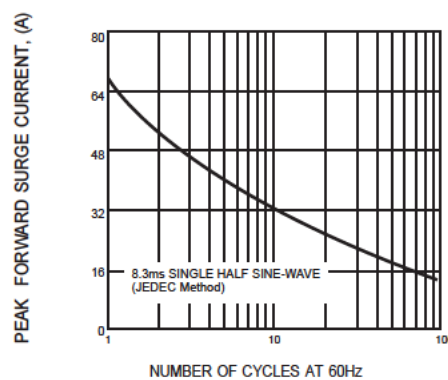


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT