

# SR202

## Features

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- Reverse Energy Tested
- High Current Capability
- Extremely Low Thermal Resistance

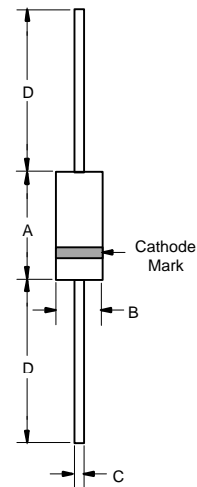
## 2 Amp Schottky Rectifier

## Maximum Ratings

- Operating Temperature: -40°C to +150°C
- Storage Temperature: -40°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead
- Weight: .003 ounces (.0093 grams) typical

Microsemi catalog Number	Device Marking	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SR202		20V	20V

## DO-41



## Electrical Characteristics @ 25°C Unless Otherwise Specified

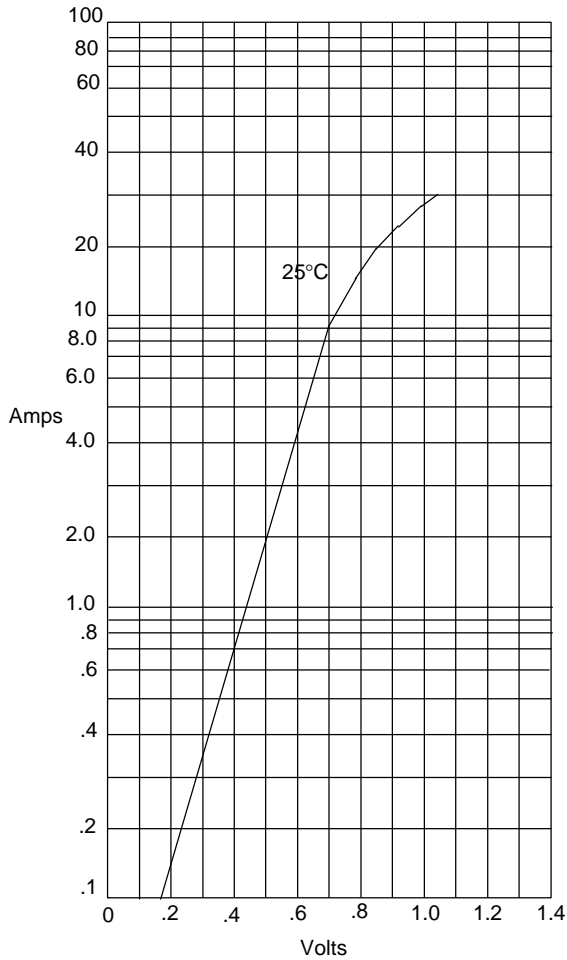
Average forward current	$I_{F(AV)}$	2A	Square wave
Maximum surge current	$I_{FSM}$	50A	8.3ms, half sine, $T_J = 150^\circ\text{C}$
Max peak forward voltage	$V_{FM}$	.55V	$I_{FM} = 2.0\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$	500 $\mu\text{A}$	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$	50pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

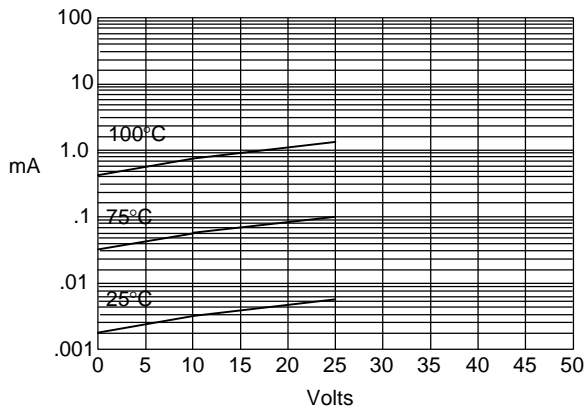
# SR202

Figure 1  
Typical Forward Characteristics



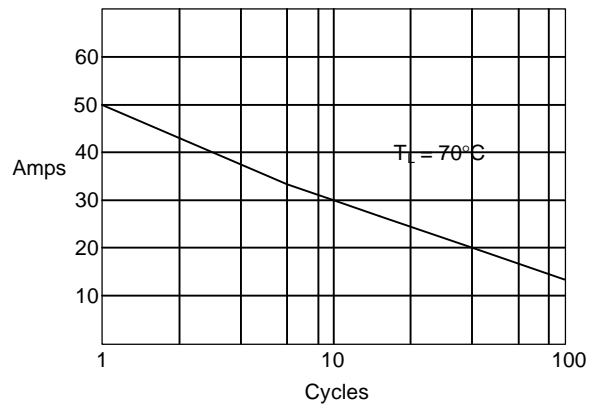
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



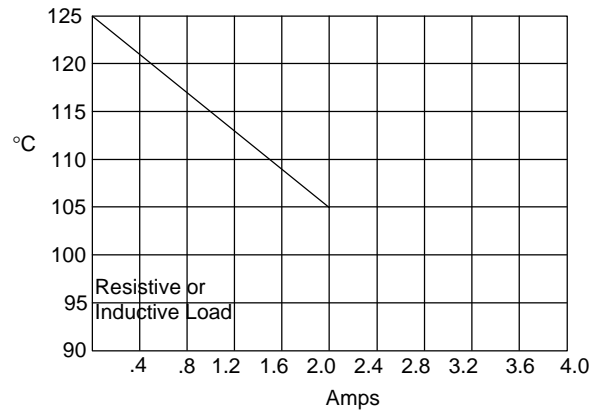
Typical Reverse Current - mA versus  
Reverse Voltage - Volts

Figure 3  
Maximum Nonrepetitive Surge Current



Peak Forward Current - Amperes versus  
Number of Cycles at 60Hz

Figure 4  
Forward Current Derating



Maximum Allowable Case Temperature °C versus  
Average Forward Current - Amperes