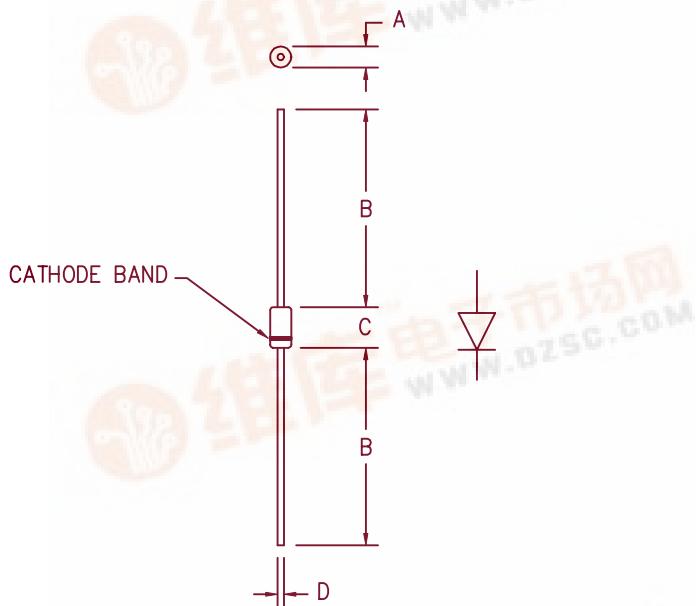


查询MS502供应商

捷多邦，专业PCB打样工厂，24小时加急出货

# 5 Amp Schottky Rectifier MS502, MS503



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.188	.260	4.78	6.50	Dia.
B	1.00	---	25.4	---	
C	.285	.375	7.24	9.52	
D	.046	.056	1.17	1.42	Dia.

PLASTIC D0201AD

Microsemi  
Catalog Number

Working  
Peak Reverse  
Voltage

Repetitive  
Peak Reverse  
Voltage

MS502  
MS503

20V  
30V

20V  
30V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- V<sub>RRM</sub> 20 to 30V

## Electrical Characteristics

Average forward current  
Average forward current  
Maximum surge current  
Max peak forward voltage  
Max peak forward voltage  
Max peak reverse current  
Typical junction capacitance

I<sub>F(AV)</sub> 5.0 Amps  
I<sub>F(AV)</sub> 5.0 Amps  
I<sub>FSM</sub> 300 Amps  
V<sub>FM</sub> .40 Volts  
V<sub>FM</sub> .49 Volts  
I<sub>RM</sub> 250 μA  
C<sub>J</sub> 430 pF

T<sub>A</sub> = 123°C, Square wave, R<sub>θJL</sub> = 11°C/W, L = 1/8"  
T<sub>A</sub> = 113°C, Square wave, R<sub>θJL</sub> = 14.7°C/W, L = 3/8"  
8.3ms, half sine, T<sub>J</sub> = 150°C  
I<sub>FM</sub> = 1.0A; T<sub>J</sub> = 25°C\*  
I<sub>FM</sub> = 5.0A; T<sub>J</sub> = 25°C\*  
V<sub>RRM</sub>, T<sub>J</sub> = 25°C  
V<sub>R</sub> = 5.0V, T<sub>J</sub> = 25°C

\*Pulse test: Pulse width 300 μsec, Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range  
Operating junction temp range

T<sub>STG</sub>

-55°C to 175°C

Maximum thermal resistance

T<sub>J</sub>

-55°C to 150°C

L = 3/8" R<sub>θJL</sub>

14.7°C/W Junction to lead

L = 1/8" R<sub>θJL</sub>

11°C/W Junction to lead

Weight

.032 ounces (1.0 grams) typical

# MS502, MS503

Figure 1  
Typical Forward Characteristics

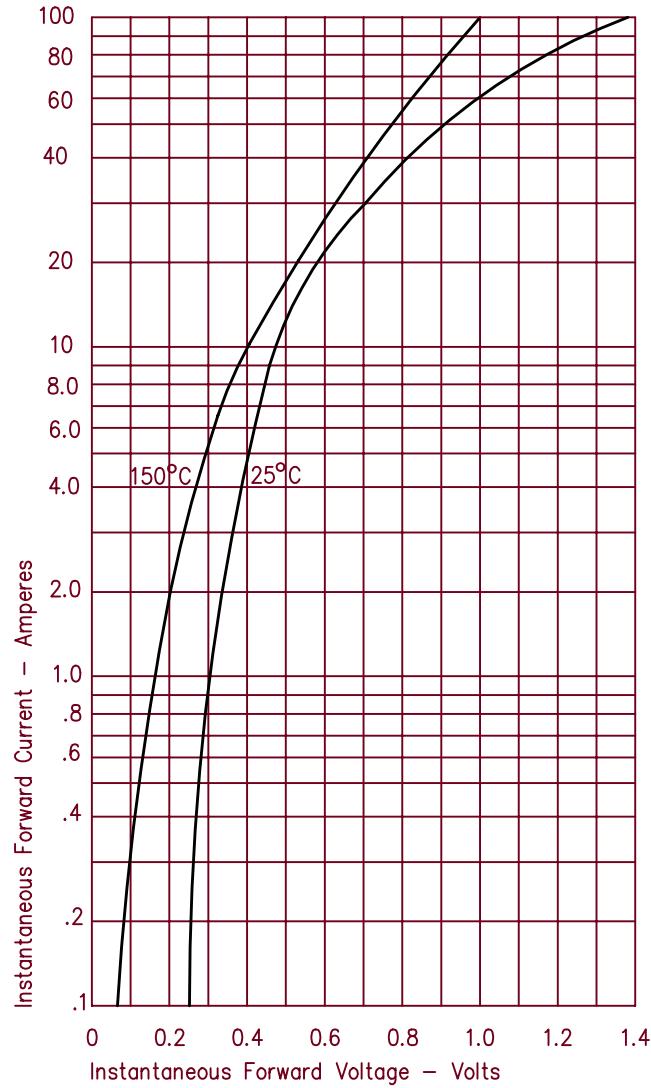


Figure 3  
Typical Junction Capacitance

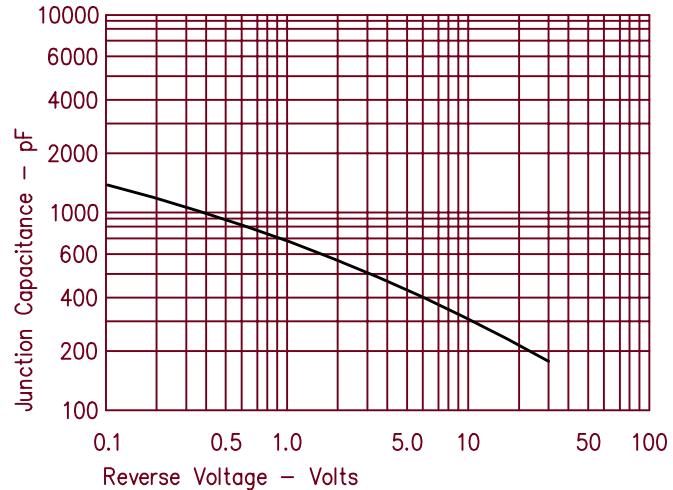


Figure 2  
Typical Reverse Characteristics

