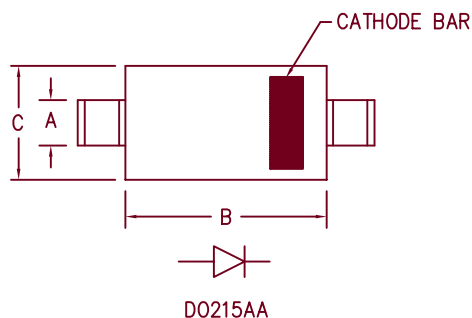
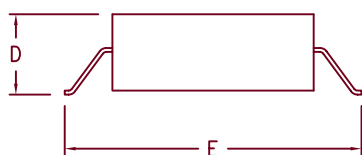


# 1 Amp Schottky Rectifier HSM180G — HSM1100G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.081	.087	2.06	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.077	.104	1.95	2.64	
E	.234	.256	5.95	6.50	



Microsemi  
Catalog Number

HSM180  
HSM190  
HSM1100

Working  
Peak Reverse  
Voltage

80V  
90V  
100V

Repetitive  
Peak Reverse  
Voltage

80V  
90V  
100V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- VRRM 80 to 100 Volts
- Economical Surface Mount Package

## Electrical Characteristics

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> 1.0 Amps  
I<sub>FSM</sub> 40 Amps  
V<sub>FM</sub> .57 Volts  
V<sub>FM</sub> .84 Volts  
I<sub>RM</sub> 100  $\mu$ A  
C<sub>J</sub> 45pF

Square wave  
8.3ms, half sine, T<sub>J</sub> = 150°C  
I<sub>FM</sub> = 0.1A: T<sub>J</sub> = 25°C\*  
I<sub>FM</sub> = 1.0A: 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  $\mu$ sec, Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range  
Operating junction temp range  
Maximum thermal resistance  
Weight

T<sub>STG</sub>  
T<sub>J</sub>  
R $\theta$ JL

-55°C to 175°C  
-55°C to 175°C  
25°C/W Junction to lead  
.0047 ounces (.013 grams) typical



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05-15-07 Rev. 2

# HSM180G — HSM1100G

Figure 1  
Typical Forward Characteristics

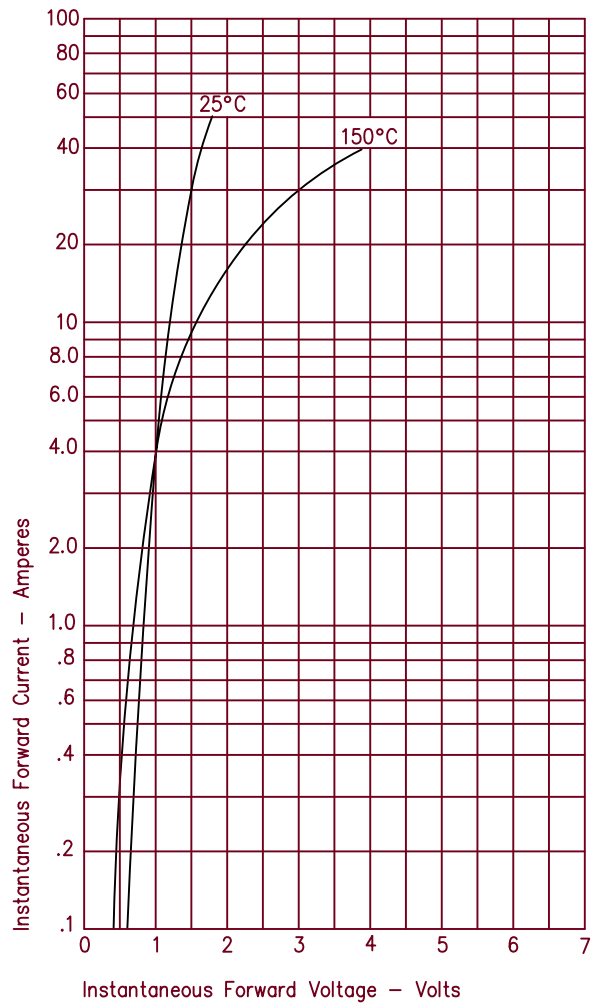


Figure 3  
Typical Junction Capacitance

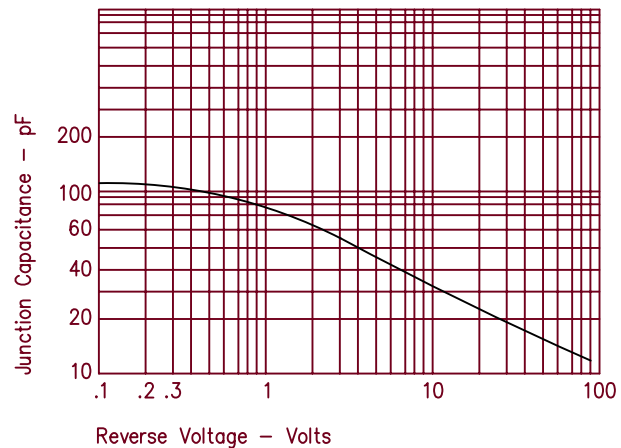
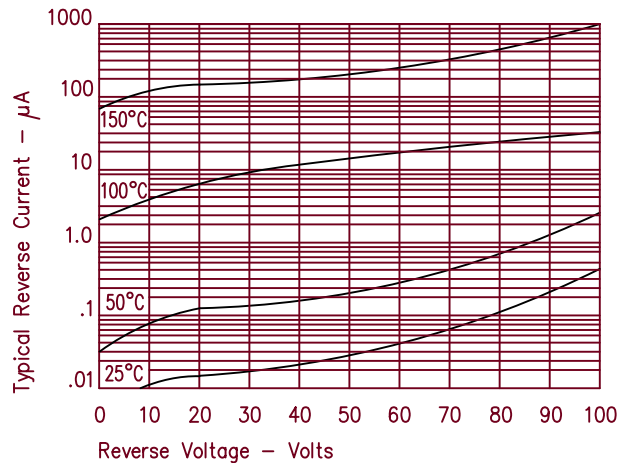


Figure 2  
Typical Reverse Characteristics





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## HSM190G/TR13 (#307485)



### Schottky Rectifier

Division [CBU](#) Datasheet [HSM180G-11G.PDF](#)

Mil-Spec Spice Data (none)

Shipping (none) Qual Data Contact Microsemi

ROHS By Design

#### Description

1A,80V-100V surface mount Schottky rectifier in DO215AA gull wing package

Package  
SMBG(SM)

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## HSM190Ge3/TR13 (#307460)



### Schottky Rectifier

Division [CBU](#) Datasheet [HSM180G-11G.PDF](#)

Mil-Spec Spice Data (none)

Shipping (none) Qual Data Contact Microsemi

ROHS By Design

#### Description

1A,80V-100V surface mount Schottky rectifier in DO215AA gull wing package

Package  
SMBG(SM)

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