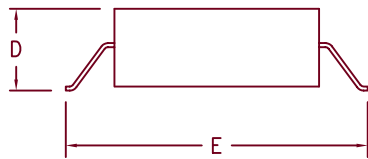
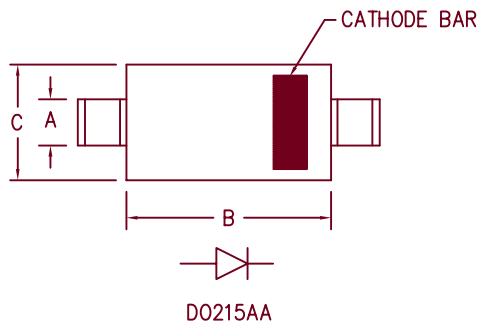


1 Amp Schottky Rectifier HSM150G, HSM160G



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

HSM150
HSM160

Working
Peak Reverse
Voltage

50V
60V

Repetitive
Peak Reverse
Voltage

50V
60V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 150°C Junction Temperature
- V_{RRM} 50 to 60 Volts

Electrical Characteristics

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

$I_F(AV)$ 1.0 Amps
 I_{FSM} 50 Amps
 V_{FM} .51 Volts
 V_{FM} .69 Volts
 I_{RM} 100 μA
 C_J 53pF

Square wave
8.3ms, half sine, $T_J = 150^\circ C$
 $I_{FM} = 0.1A: T_J = 25^\circ C^*$
 $I_{FM} = 1.0A: T_J = 25^\circ C^*$
 $V_{RRM}, T_J = 25^\circ C$
 $V_R = 5.0V, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Maximum thermal resistance
Weight

T_{STG}
 T_J
 $R_{\theta JL}$

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



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www.microsemi.com

05-11-07 Rev. 3

HSM150G, HSM160G

Figure 1
Typical Forward Characteristics

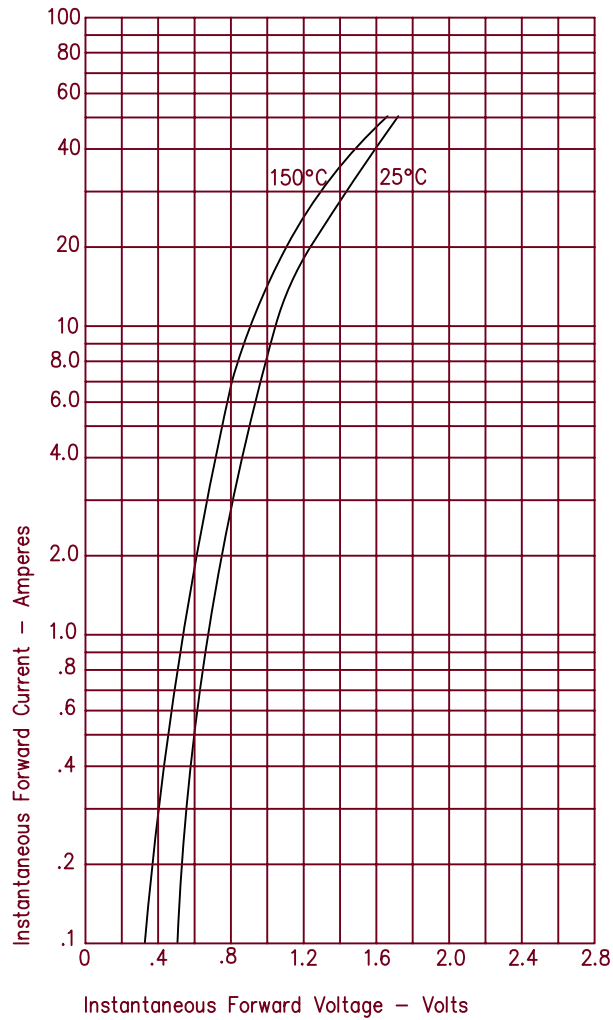


Figure 3
Typical Junction Capacitance

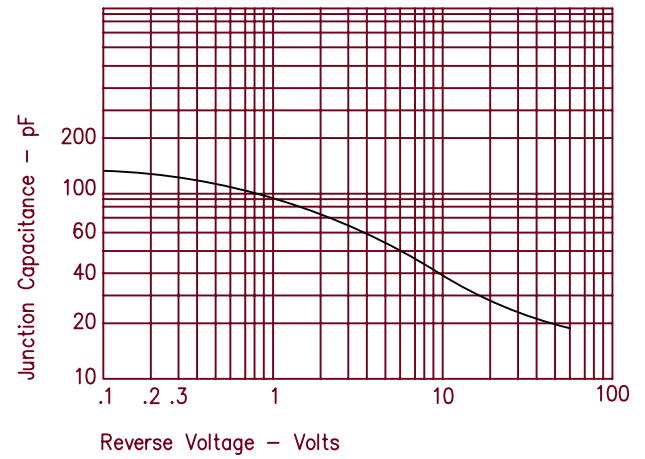
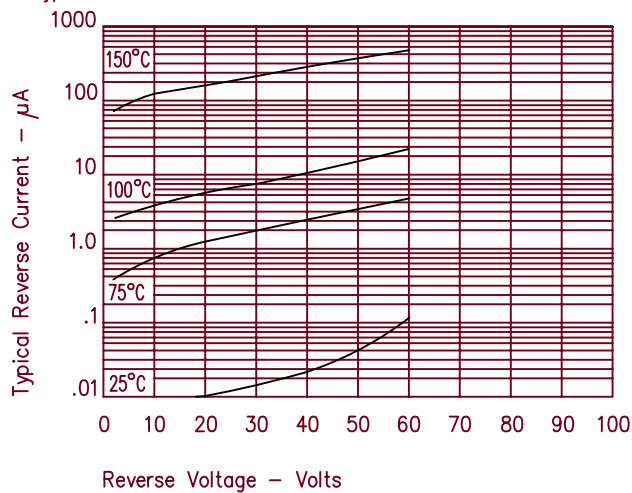


Figure 2
Typical Forward Characteristics





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HSM150G/TR13 (#307477)



Schottky Rectifier

Division [CBU](#) **Datasheet** [hsm150g-60g.pdf](#)
Mil-Spec (none) **Spice Data** (none)
Shipping (none) **Qual Data** [Contact Microsemi](#)
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Description

1A,50V-60V surface mount Schottky rectifier in DO215AA gull wing package

Package
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HSM150G/TR13 (#307477)



Schottky Rectifier

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