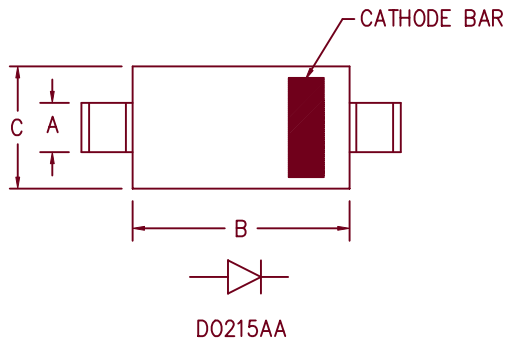
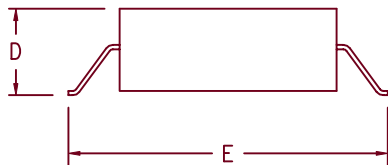


1 Amp Schottky Rectifier HSM150G, HSM160G



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	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM150	50V	50V
HSM160	60V	60V

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

Electrical Characteristics

Average forward current	$I_F(AV)$ 1.0 Amps	Square wave
Maximum surge current	I_{FSM} 50 Amps	8.3ms, half sine, $T_J = 150^\circ C$
Max peak forward voltage	V_{FM} .51 Volts	$I_{FM} = 0.1A; T_J = 25^\circ C$ *
Max peak forward voltage	V_{FM} .69 Volts	$I_{FM} = 1.0A; T_J = 25^\circ C$ *
Max peak reverse current	I_{RM} 100 μA	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	C_J 53pF	$V_R = 5.0V, T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	-55°C to 175°C
Operating junction temp range	T_J	-55°C to 175°C
Maximum thermal resistance	$R_{\theta JL}$	25°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical

1-13-03 Rev. 2

HSM150G, HSM160G

Figure 1
Typical Forward Characteristics

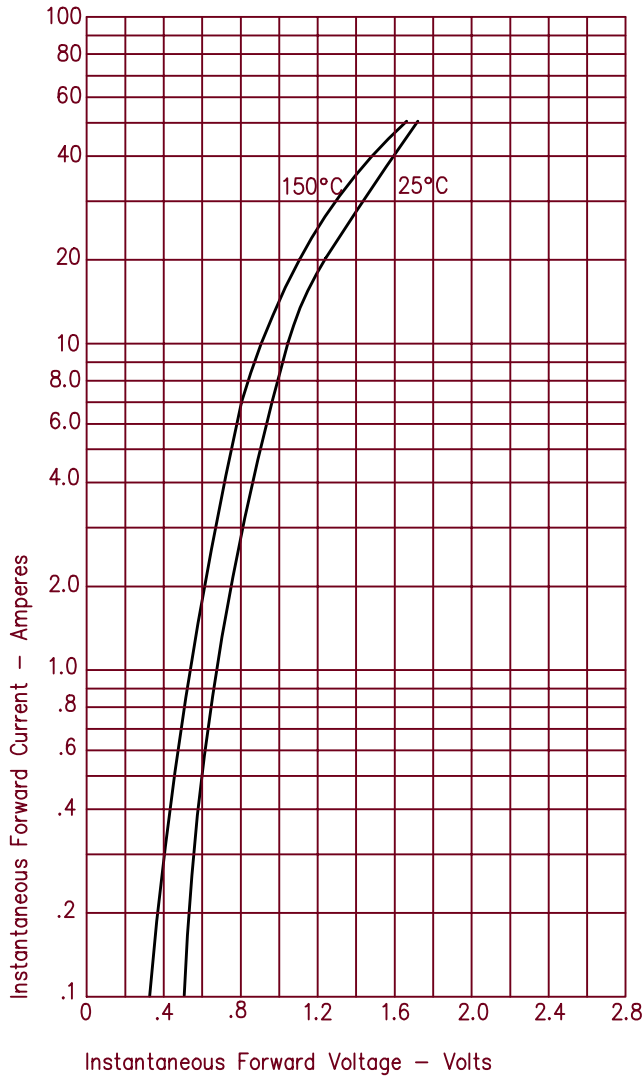


Figure 3
Typical Junction Capacitance

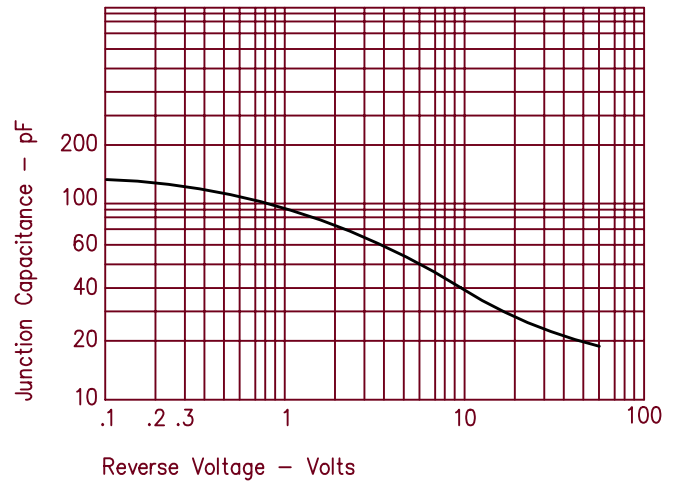
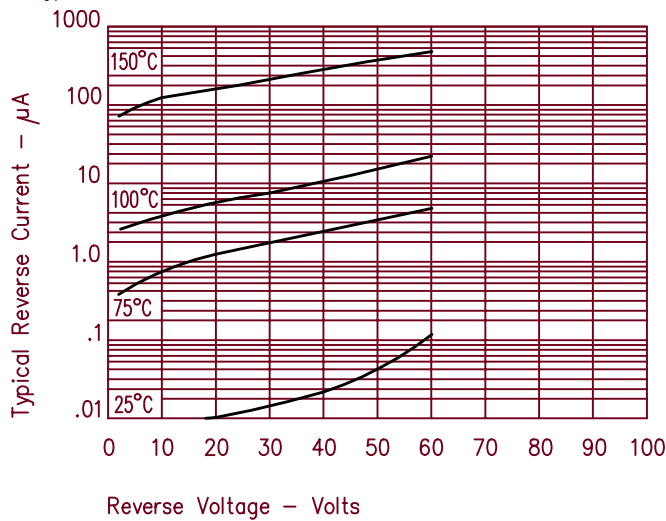


Figure 2
Typical Forward Characteristics





LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.