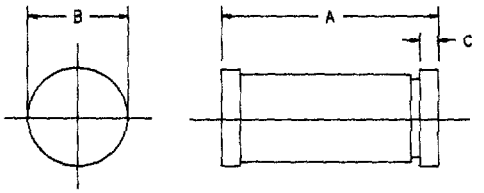
1 Amp Schottky Rectifier
HSM180, HSM190

C



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.189	.205	4.80	5.20	
B	.094	.105	2.39	2.66	Dia.
C	.016	.022	.41	.55	

GLASS HERMETIC DO213AB

Microsemi Catalog Number	Working *Peak Reverse* Voltage	Repetitive *Peak Reverse* Voltage
HSM180	80V	80V
HSM190	90V	90V

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- V_{RRM} 80 to 90 Volts
- Economical Surface Mount Package

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1.0 Amps	T_A = 138°C, Square wave, $R_{\theta JC}$ = 45°C/W
Maximum surge current	I_{FSM} 75 Amps	8.3ms, half sine, T_J = 150°C
Max peak forward voltage	V_{FM} .53 Volts	I_{FM} = 0.1A; T_J = 25°C*
Max peak forward voltage	V_{FM} .81 Volts	I_{FM} = 1.0A; T_J = 25°C*
Max peak reverse current	I_{RM} 100 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 45pF	V_R = 5.0V, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−65°C to 175°C
Operating junction temp range	T_J	−65°C to 150°C
Maximum thermal resistance	$R_{\theta JC}$	45°C/W Junction to Case
Weight		.0047 ounces (.012 grams) typical

PH: 303-469-2161
FAX: 303-466-3775

Microsemi Corp.
Colorado

HSM180, HSM190

Figure 1
Typical Forward Characteristics

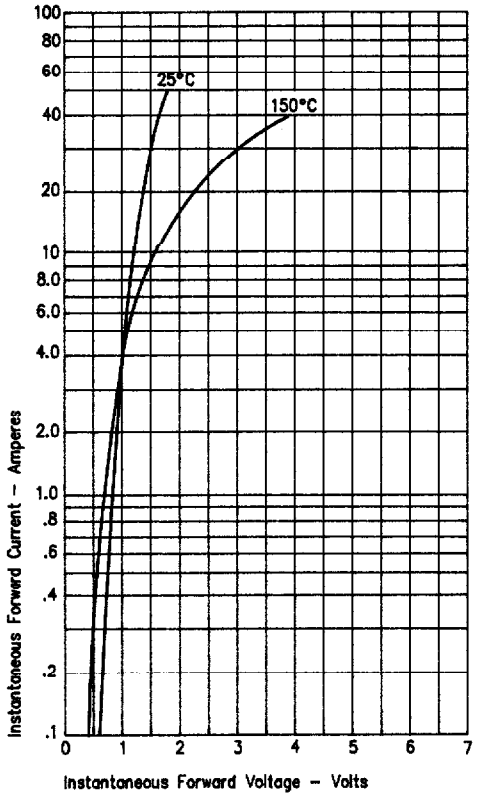


Figure 2
Typical Reverse Characteristics

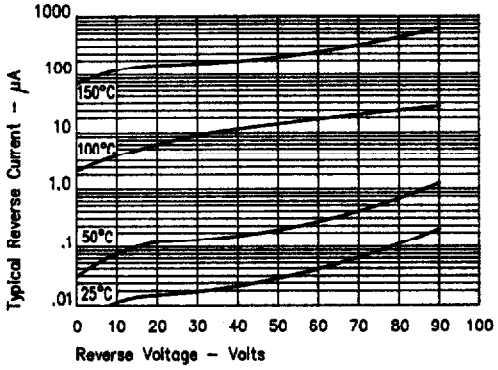
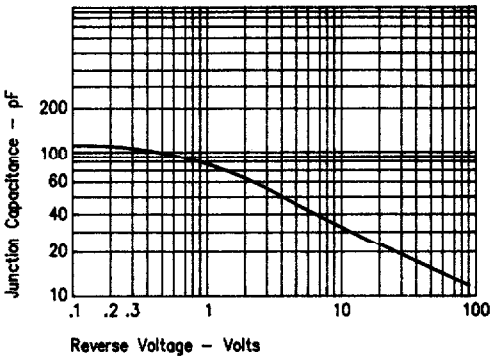


Figure 3
Typical Junction Capacitance



littlediode
COMPONENTS FOR ALL

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.