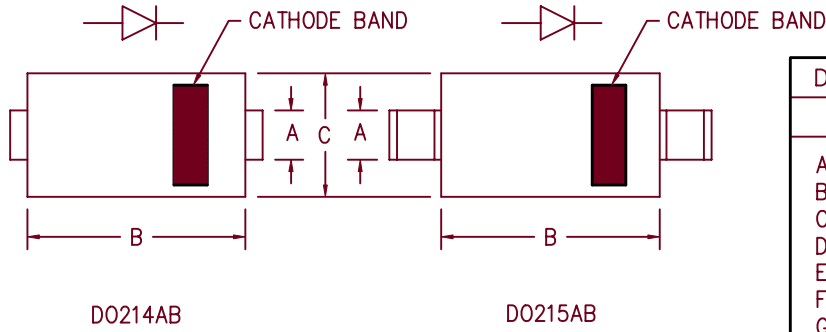
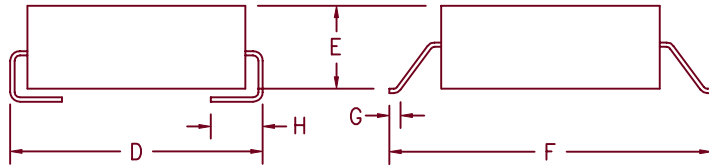


# 8 Amp Schottky Rectifier HSM880 — HSM8100



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.97	3.12	
B	.260	.280	6.60	7.11	
C	.220	.245	5.59	6.22	
D	.307	.322	7.80	8.18	
E	.075	.095	1.91	2.41	
F	.380	.400	9.65	10.16	
G	.025	.040	.640	1.02	
H	.030	.060	.760	1.52	



Microsemi  
Catalog Number

HSM880\*  
HSM890\*  
HSM8100\*

Working Peak  
Reverse Voltage

80V  
90V  
100V

Repetitive Peak  
Reverse Voltage

80V  
90V  
100V

\*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Schottky Barrier Rectifier
- Guard Ring Protection
- 175°C Junction Temperature
- High Current Capability
- $V_{RRM}$  80 to 100 Volts
- Surface mount packages

## Electrical Characteristics

Average forward current	$I_F(AV)$ 8.0 Amps	Square wave
Maximum surge current	$I_F(AV)$ 300 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max peak forward voltage	$V_{FM}$ .61 Volts	$I_{FM} = 8.0A; T_J = 175^\circ\text{C}^*$
Max peak forward voltage	$V_{FM}$ .78 Volts	$I_{FM} = 8.0A; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$ 500 $\mu\text{A}$	$V_{RRM}, T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J$ 480pF	$V_R = 5.0V, T_J = 25^\circ\text{C}$

\* Pulse test: Pulse width 300  $\mu\text{sec}$ , 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	$R_{\theta JL}$	20°C/W Junction to lead
Weight		.008 ounces (.22 grams) typical

# HSM880 — HSM8100

Figure 1  
Typical Forward Characteristics

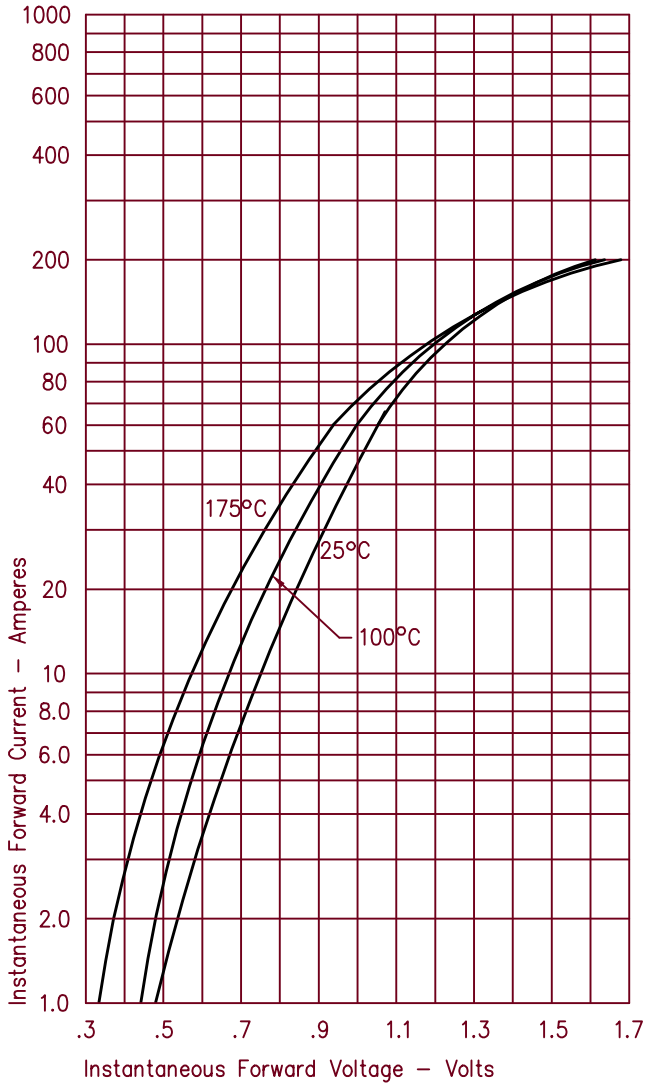


Figure 3  
Typical Junction Capacitance

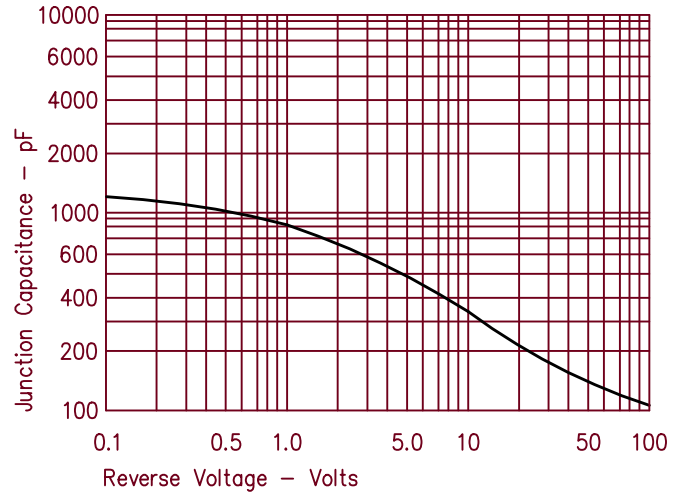


Figure 2  
Typical Reverse Characteristics

