Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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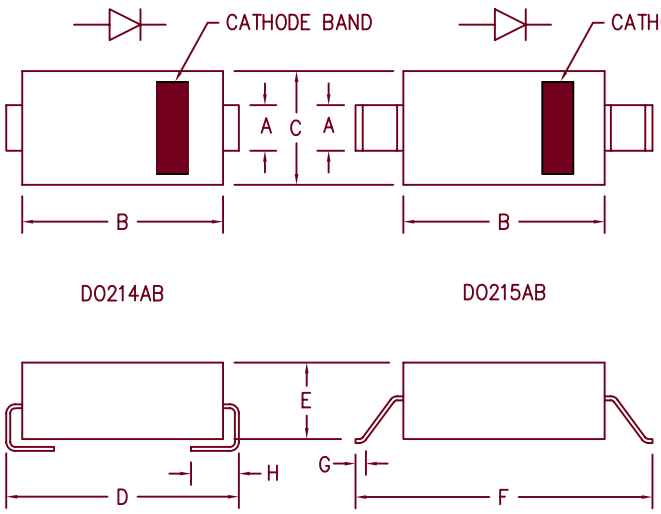
8 Amp Schottky Rectifier

HSM880 – HSM8100



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM880*	SK88L	80V	80V
HSM890*		90V	90V
HSM8100*	SK810L	100V	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°C
Max peak forward voltage	V_{FM} .61 Volts	I_{FM} = 8.0A; T_J = 175°C *
Max peak forward voltage	V_{FM} .78 Volts	I_{FM} = 8.0A; T_J = 25°C *
Max peak reverse current	I_{RM} 500 µA	V_{RRM}, T_J = 25°C
Typical junction capacitance	C_J 480pF	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}	−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

SCOTTSDALE Microsemi

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05-15-07 Rev. 4

HSM880 – HSM8100

Figure 1
Typical Forward Characteristics

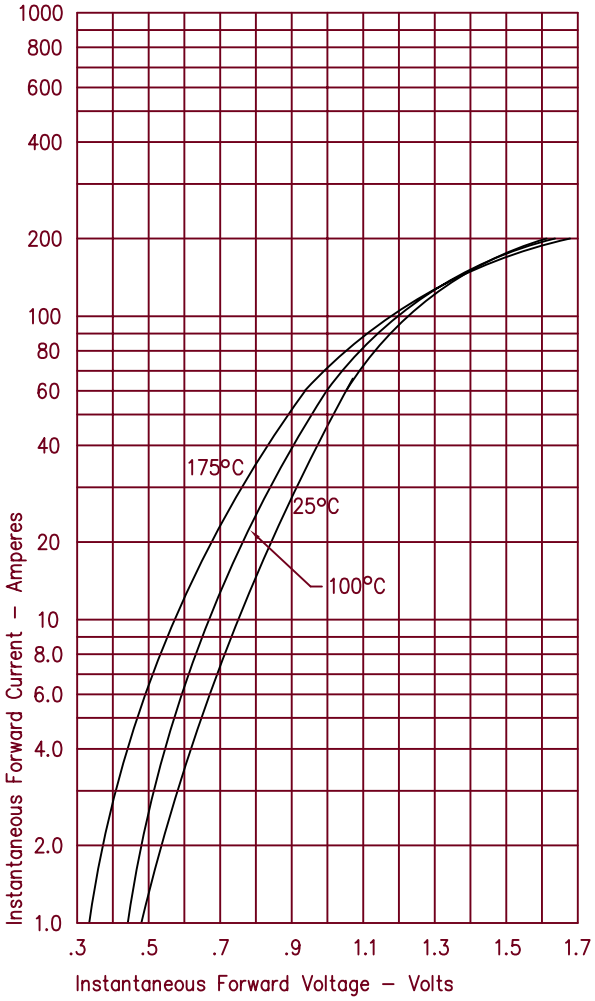

Figure 2
Typical Reverse Characteristics

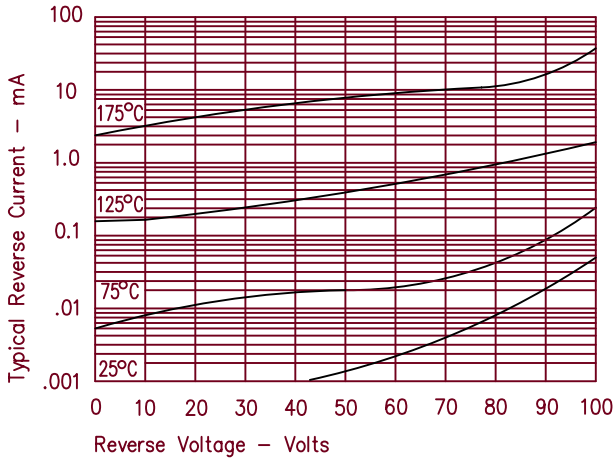

Figure 3
Typical Junction Capacitance