

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!



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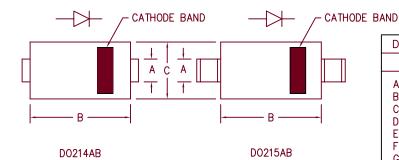
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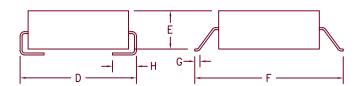




## 5 Amp Schottky Rectifier HSM580 — HSM5100



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



Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM580* HSM590*	SK58L	80V 90V	80V 90V
HSM5100*	SK510L	100V	100V

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

- Schottky Barrier Rectifier
- Guard Ring Protection
- High surge capacity
- •VRRm 80 to 100 volts
- Surface mount packages

#### 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) 5.0 Amps I FSM 200 Amps V FM .60 Volts V FM .80 Volts I RM 250 µA CJ 280 pF Square wave,  $^{T}L = 95^{\circ}C$ ,  $^{R}\Theta JL = 22^{\circ}C/W$  8.3ms, half sine,  $^{T}J = 175^{\circ}C$   $^{I}FM = 1A$ ;  $^{T}J = 25^{\circ}C^{\circ}$   $^{I}FM = 5A$ ;  $^{T}J = 25^{\circ}C^{\circ}$   $^{V}RRM$ ,  $^{T}J = 25^{\circ}C$   $^{V}R = 5.0V$ ,  $^{T}J = 25^{\circ}C$ 

\*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<sub>STG</sub> T<sub>J</sub> R<del>O</del>JL

-55°C to 175°C -55°C to 175°C 22°C/W Junction to lead

.008 ounces (.22 grams) typical



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# HSM580 - HSM5100

Figure 1 Typical Forward Characteristics

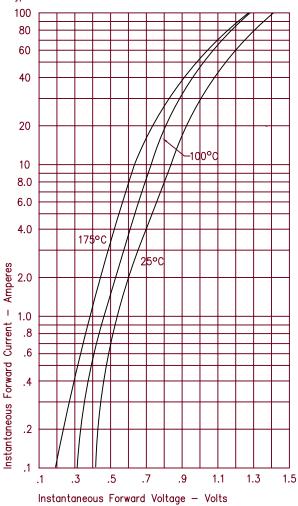


Figure 2 Typical Reverse Characteristics

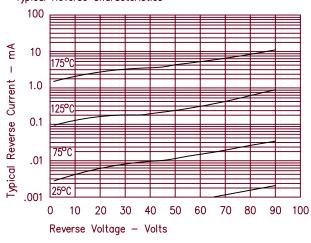


Figure 3 Typical Junction Capacitance

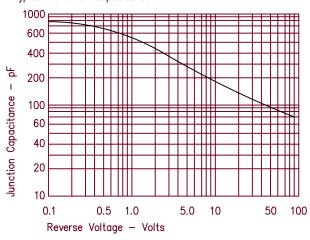


Figure 4
Forward Current Derating

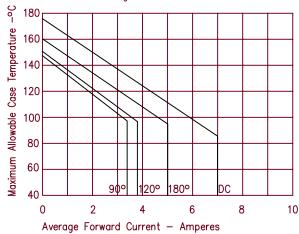


Figure 5 Maximum Power Dissipation

