



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

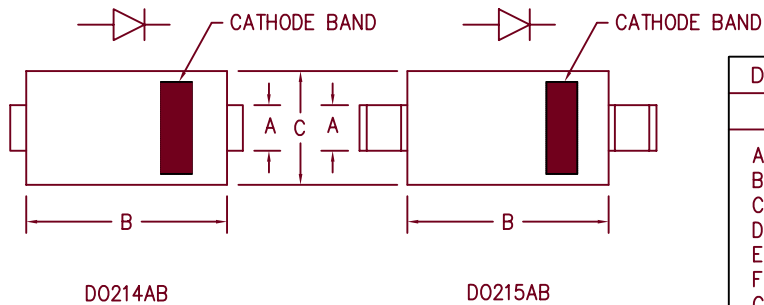
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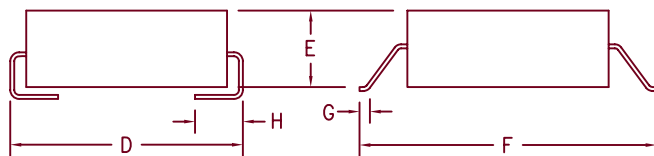
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# 8 Amp Schottky Rectifier HSM825 — HSM845



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	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM825*	SK82L	25V	25V
HSM830*	SL83L	30V	30V
HSM835*	SK835L	35V	35V
HSM840*	SK84L	40V	40V
HSM845*	SK845L	45V	45V

\*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
- $V_{RRM}$  25 to 45 Volts
- Surface mount package

## Electrical Characteristics

Average forward current	$I_F(AV)$ 8.0 Amps	Square wave
Maximum surge current	$I_F(AV)$ 350 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max peak forward voltage	$V_{FM}$ .47 Volts	$I_{FM} = 8.0A; T_J = 150^\circ C^*$
Max peak forward voltage	$V_{FM}$ .62 Volts	$I_{FM} = 8.0A; T_J = 25^\circ C^*$
Max peak reverse current	$I_{RM}$ 250 $\mu A$	$V_{RRM}, T_J = 25^\circ C$
Typical junction capacitance	$C_J$ 660pF	$V_R = 5.0V, T_J = 25^\circ C$

\* Pulse test: Pulse width 300  $\mu sec$ , 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



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05-15-07 Rev. 3

# HSM825 — HSM845

Figure 1  
Typical Forward Characteristic

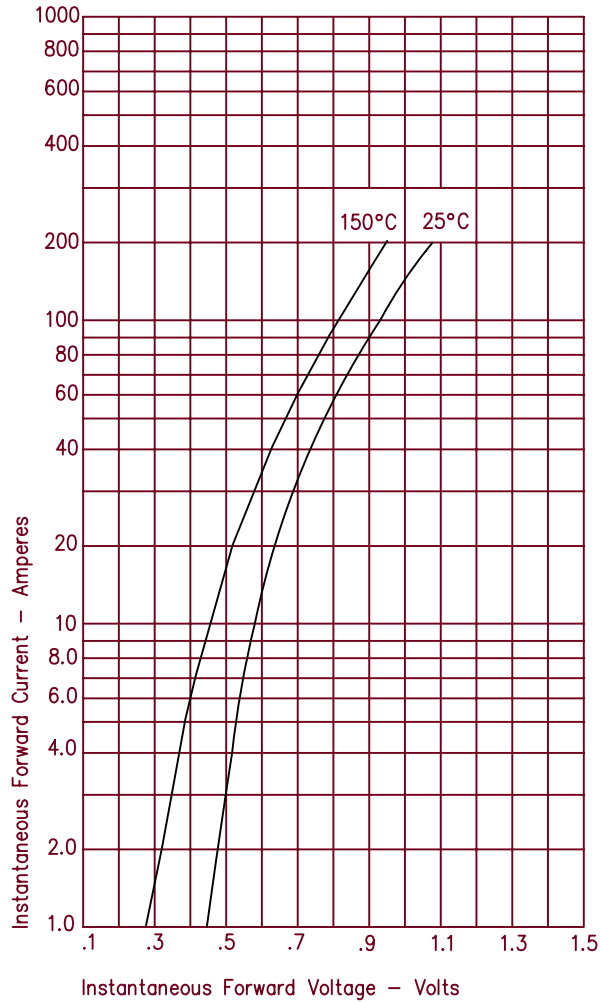


Figure 3  
Typical Junction Capacitance

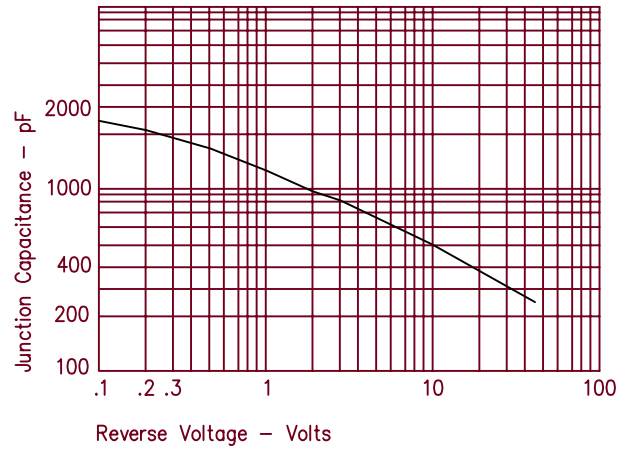


Figure 2  
Typical Reverse Characteristics

