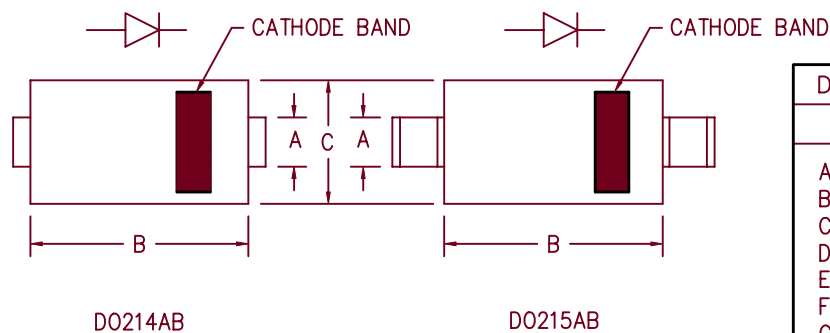
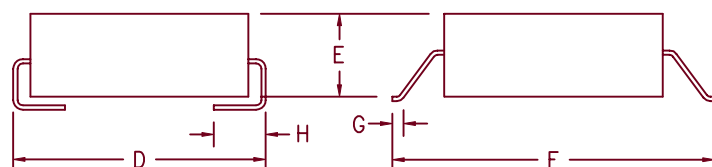


8 Amp Schottky Rectifier HSM825 — HSM845



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	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM825*	25V	25V
HSM830*	30V	30V
HSM835*	35V	35V
HSM840*	40V	40V
HSM845*	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
- VRRM 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°C
Max peak forward voltage	V _{FM} .47 Volts	I _{FM} = 8.0A; T _J = 150°C *
Max peak forward voltage	V _{FM} .62 Volts	I _{FM} = 8.0A; T _J = 25°C *
Max peak reverse current	I _{RM} 250 μA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 660pF	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	Rθ _{JL}	20°C/W Junction to lead
Weight		.008 ounces (.22 grams) typical

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HSM825 — HSM845

Figure 1
Typical Forward Characteristic

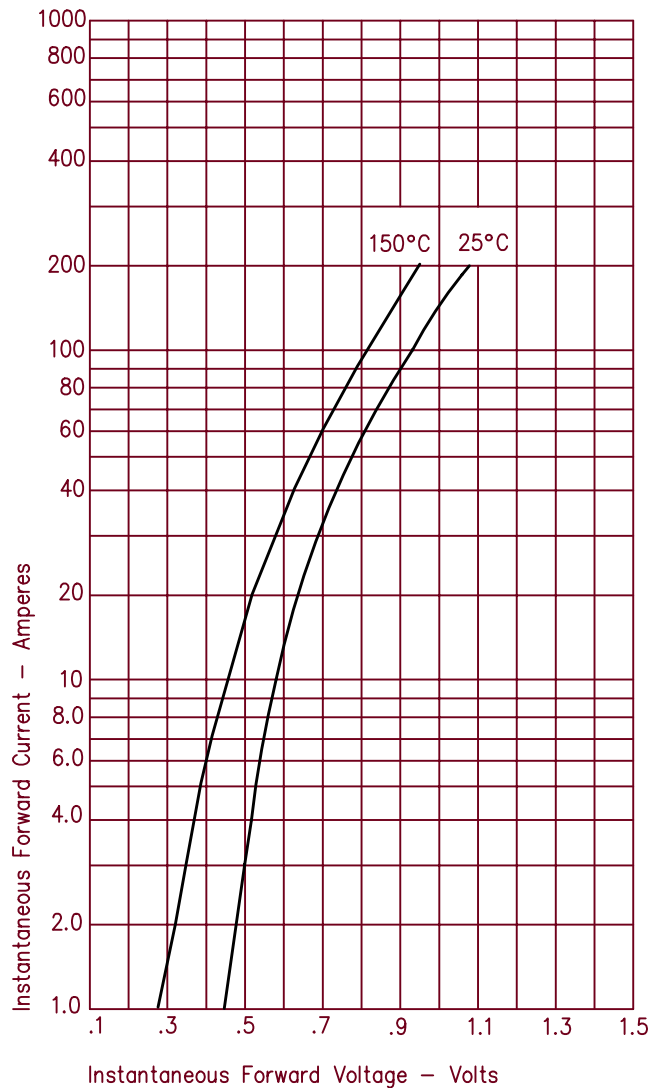


Figure 3
Typical Junction Capacitance

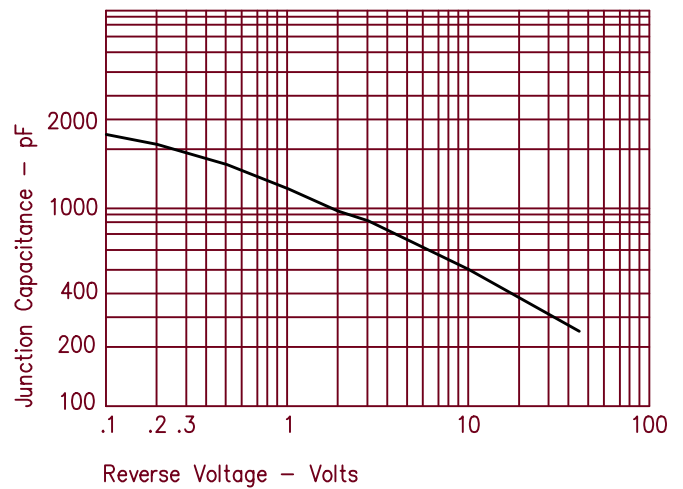


Figure 2
Typical Reverse Characteristics

