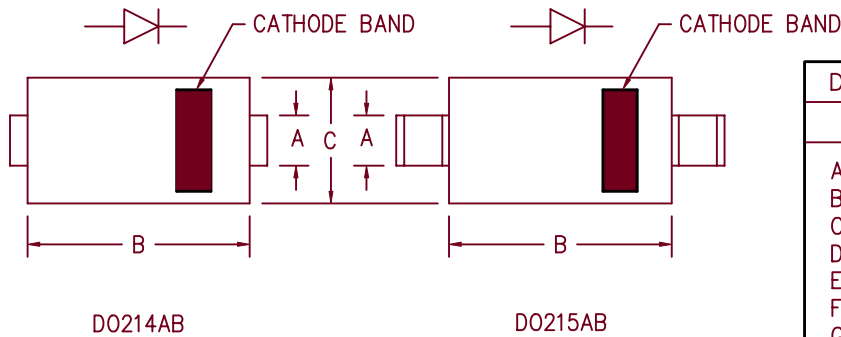
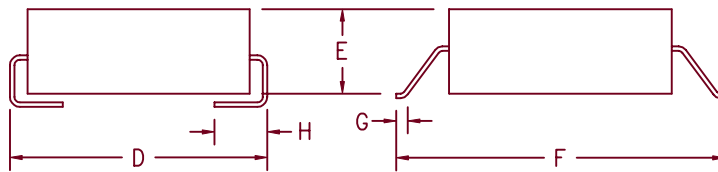


5 Amp Schottky Rectifier HSM580 — HSM5100



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
HSM580*	SK58L	80V	80V
HSM590*		90V	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	I _{F(AV)} 5.0 Amps	Square wave, T _L = 95°C, R _{θJL} = 22°C/W
Maximum surge current	I _{FSM} 200 Amps	8.3ms, half sine, T _J = 175°C
Max peak forward voltage	V _{FM} .60 Volts	I _{FM} = 1A; T _J = 25°C *
Max peak forward voltage	V _{FM} .80 Volts	I _{FM} = 5A; T _J = 25°C *
Max peak reverse current	I _{RM} 250 μA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 280 pF	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 _{θJL}	22°C/W Junction to lead
Weight		.008 ounces (.22 grams) typical

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HSM580 — HSM5100

Figure 1
Typical Forward Characteristics

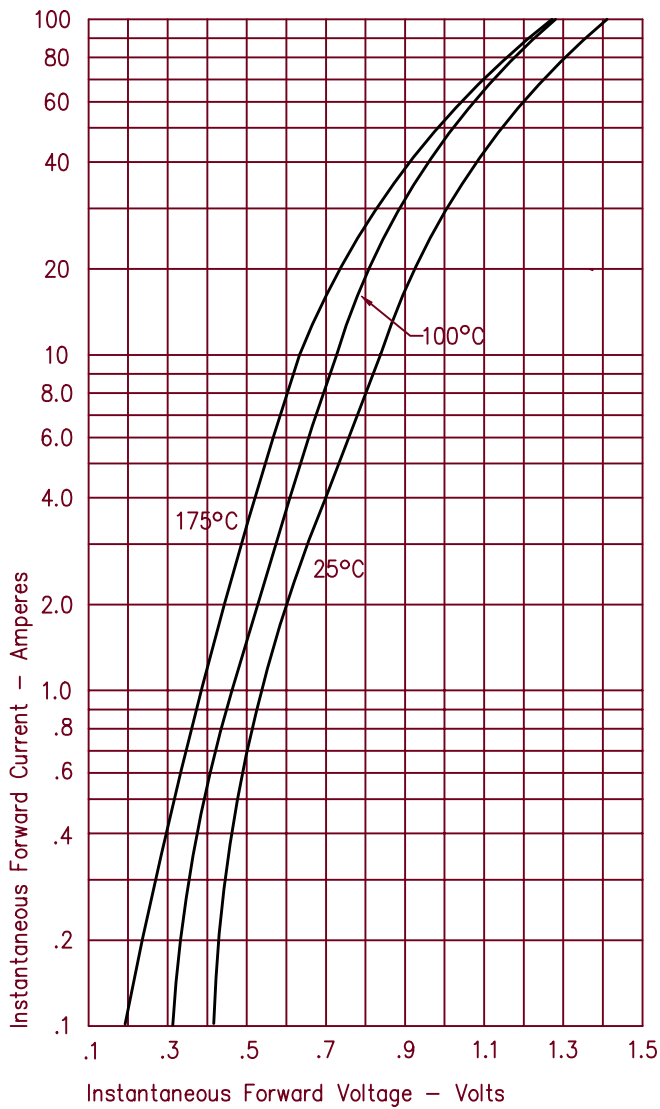


Figure 3
Typical Junction Capacitance

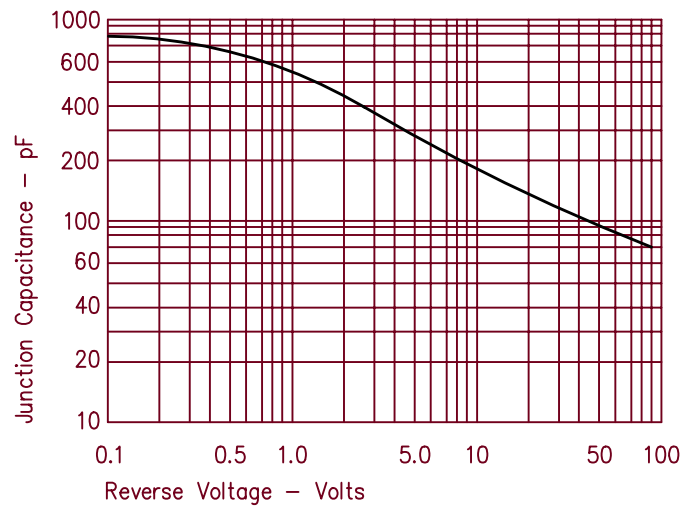


Figure 4
Forward Current Derating

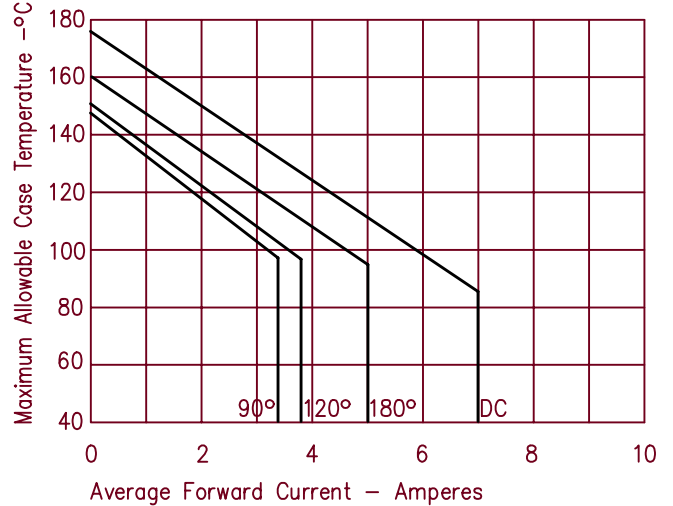


Figure 2
Typical Reverse Characteristics

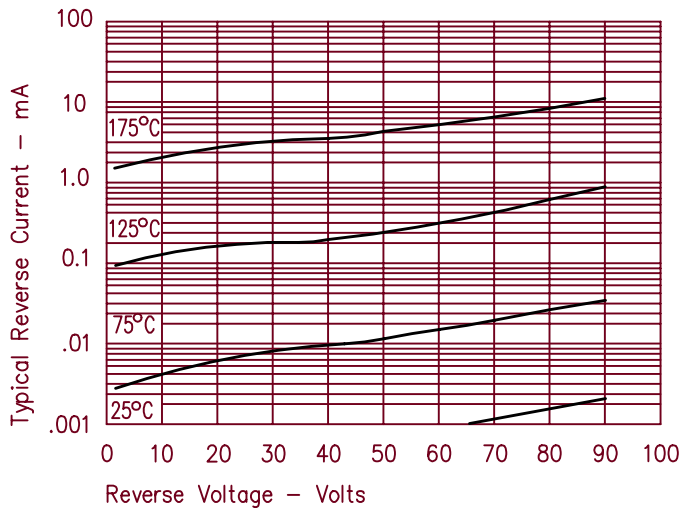


Figure 5
Maximum Power Dissipation

