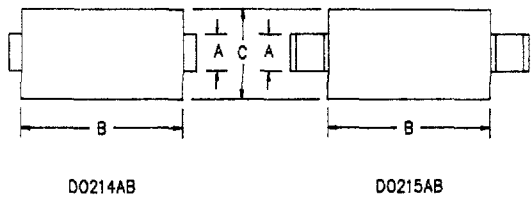
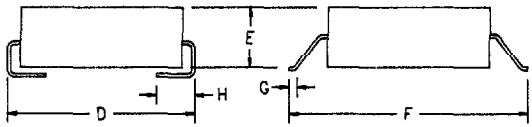


5 Amp Schottky Rectifier HSM580, HSM590



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
G	.025	.040	.381	.762	
H	.030	.080	.760	1.52	



Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HSM580*	80V	80V
HSM590*	90V	90V

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

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low power loss, high efficiency
- High surge capacity
- VRRM 80 to 90 Volts

Electrical Characteristics			
Average forward current	IF(AV) 5.0 Amps	Square wave	
Maximum surge current	IFSM 300 Amps	8.3ms, half sine, TJ = 175°C	
Max peak forward voltage	VFM .60 Volts	IFM = 5A; TJ = 175°C*	
Max peak forward voltage	VFM .80 Volts	IFM = 5A; TJ = 25°C*	
Max peak reverse current	IRM 250 μA	VRRM, TJ = 25°C	
Typical junction capacitance	CJ 280 pF	VR = 5.0V, TJ = 25°C	

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temperature range	TSTG	-40°C to 150°C
Operating junction temp range	TJ	-40°C to 150°C
Weight		.008 ounces (.22 grams) typical

PH: 303-469-2161
FAX: 303-466-9775



HSM580, HSM590

Figure 1
Typical Forward Characteristics

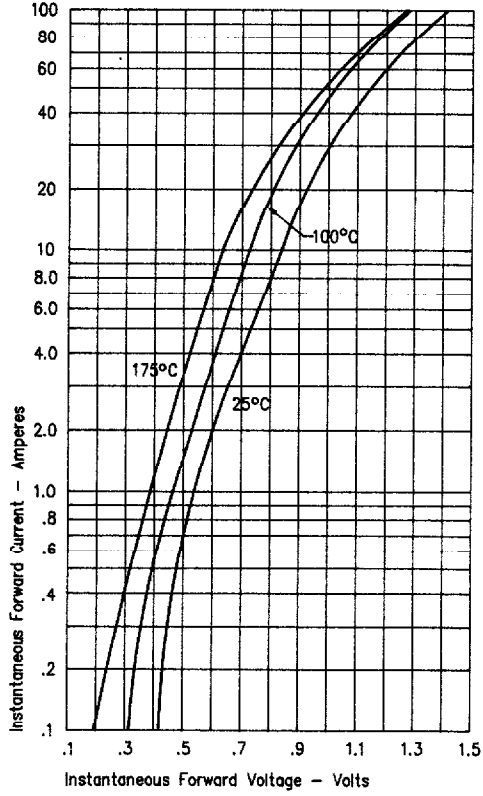


Figure 3
Typical Junction Capacitance

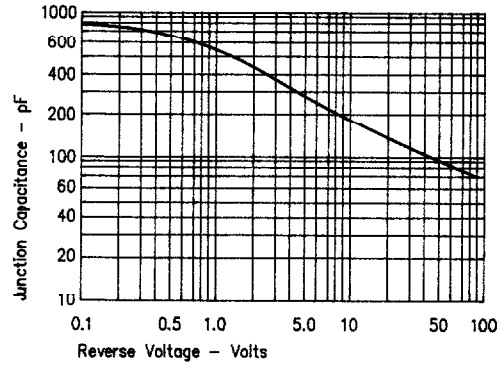


Figure 2
Typical Reverse Characteristics

