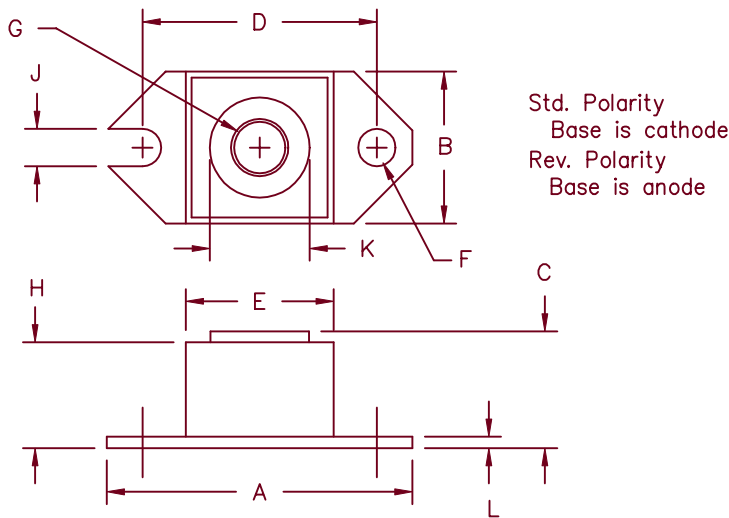


240 Amp Schottky Rectifier

HS24380 — HS243100



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	1.52	1.56	38.86	39.62	
B	.725	.775	18.42	19.69	
C	.605	.625	15.37	15.88	
D	1.182	1.192	30.02	30.28	
E	.745	.755	18.92	19.18	Sq.
F	.152	.160	3.86	4.06	Dia.
G		1/4-20	UNC-2B		
H	.570	.580	14.49	14.73	
J	.156	.160	3.96	4.06	
K	.495	.505	12.57	12.83	Dia.
L	.120	.130	3.05	3.30	

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HS24380*	243NQ080	80V	80V
HS24390*	MBR24080	90V	90V
HS243100*	243NQ100	100V	100V
	MBR240100		

*Add Suffix R for Reverse Polarity

- Schottky Barrier Rectifier
- Guard Ring Protection
- 240 Amperes/80 to 100 Volts
- 175°C Junction Temperature
- Reverse Energy Tested

Electrical Characteristics		
Average forward current	I _{F(AV)} 240 Amps	T _C = 122°C, Square wave, R _{θJC} = .24°C/W
Maximum surge current	I _{FSM} 3300 Amps	8.3ms, half sine, T _J = 175°C
Maximum repetitive reverse current	I _{R(OV)} 2 Amps	f = 1 KHZ, 25°C
Max peak forward voltage	V _{FM} 0.72 Volts	I _{FM} = 240A: T _J = 175°C*
Max peak forward voltage	V _{FM} 0.86 Volts	I _{FM} = 240A: T _J = 25°C*
Max peak reverse current	I _{RM} 200mA	V _{RRM} , T _J = 125°C*
Max peak reverse current	I _{RM} 8.0mA	V _{RRM} , T _J = 25°C
Typical junction capacitance	C _J 6400pF	V _R = 5.0V, T _C = 25°C

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

Thermal and Mechanical Characteristics		
Storage temp range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Max thermal resistance	R _{θJC}	0.24°C/W Junction to case
Typical thermal resistance (greased)	R _{θCS}	0.12°C/W Case to sink
Terminal Torque		35-40 inch pounds
Mounting Base Torque		20-25 inch pounds
Weight		1.1 ounces (32 grams) typical

HS24380 – HS243100

Figure 1
Typical Forward Characteristics

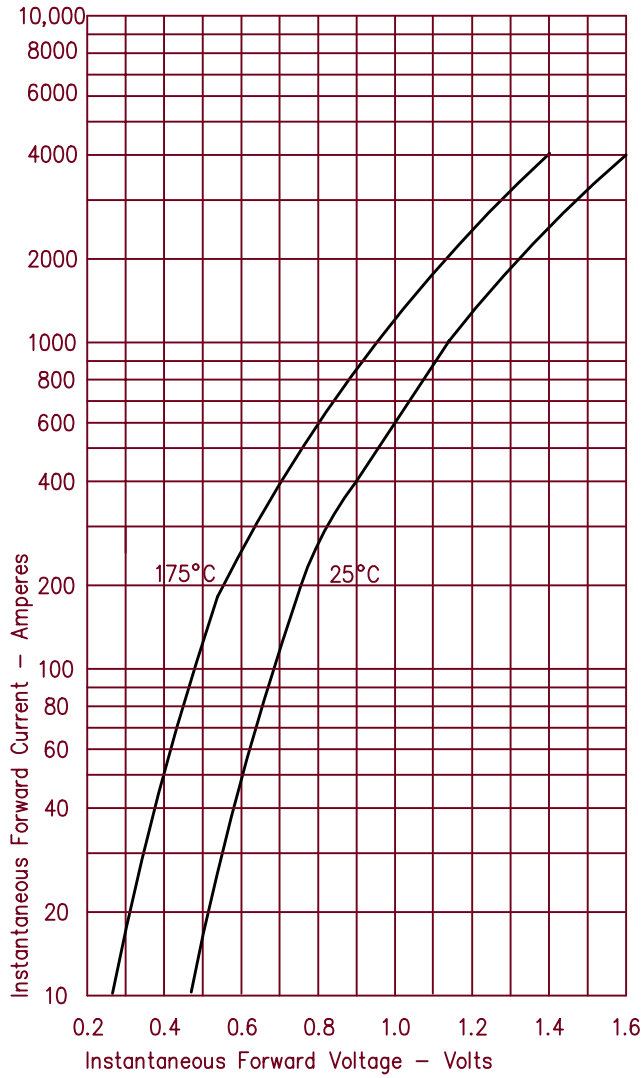


Figure 3
Typical Junction Capacitance

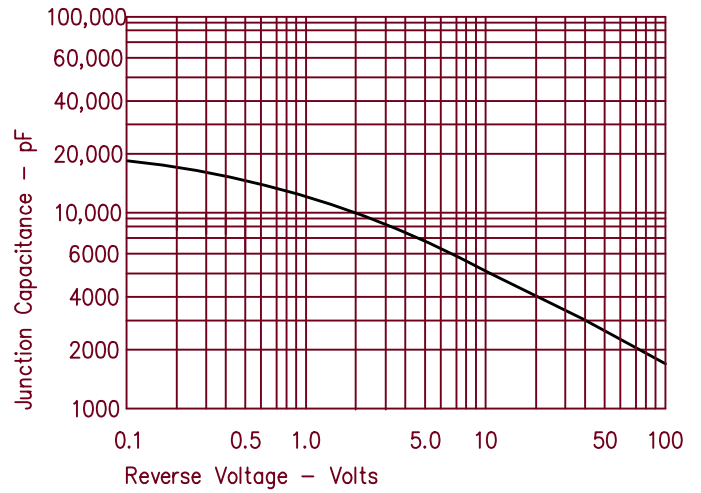


Figure 4
Forward Current Derating

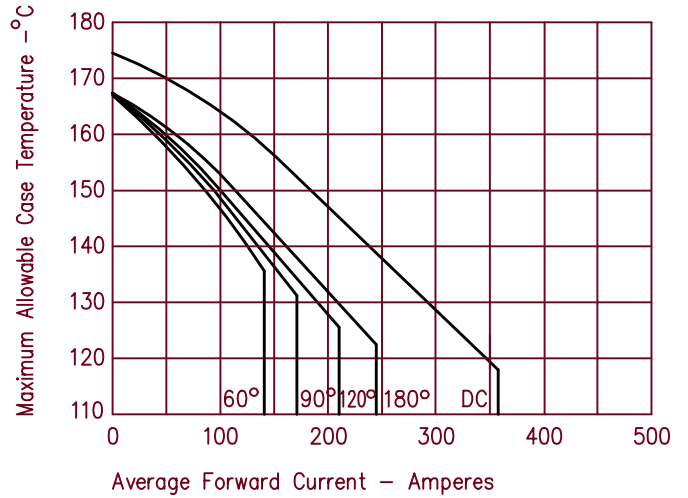


Figure 2
Typical Reverse Characteristics

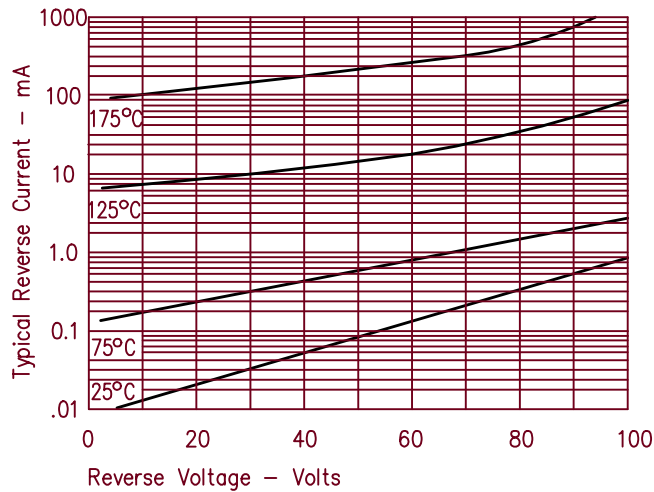
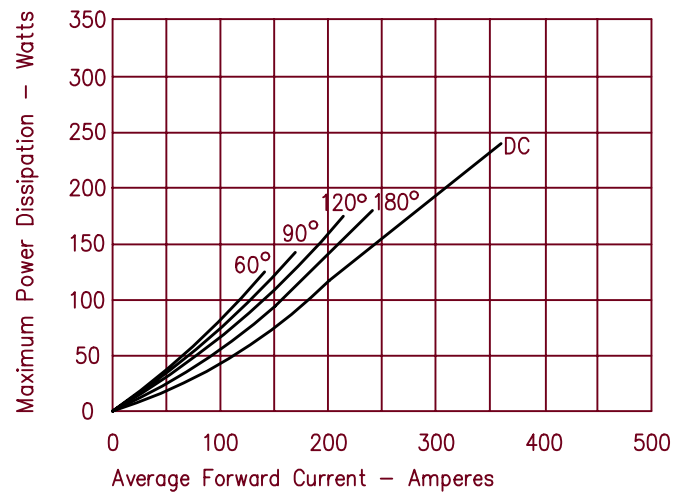


Figure 5
Maximum Forward Power Dissipation





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