imall

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!

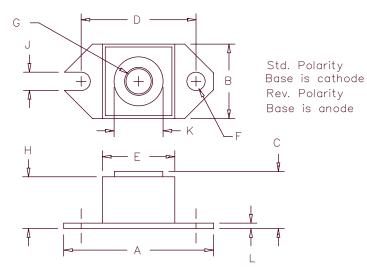


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180 Amp Schottky Rectifier HS18380-HS183100



Dim	. Inches		Millimete	r	
	Minimum	Maximum	Minimum	Maximum	Notes
А	1.52	1.56	38.61	39.62	
В	.725	.775	18.42	19.69	
С	.605	.625	15.37	15.88	
D	1.182	1.192	30.02	30.28	
E	.745	.755	18.92	19.18	Sq. Dia.
F	.152	.160	3.86	4.06	Dia.
G		1/4-20	UNC-2B		
Н	.525	.580	13.34	14.73	
J	.156	.160	3.96	4.06	
Κ	.495	.505	12.57	12.83	Dia.
L	.120	.130	3.05	3.30	

Microsemi Catalog Number	Idustry Part Number		Repetitive Peak Reverse Voltage
HS18380*	183NQ080	80V	80V
HS18390*	MBR20080	90V	90V
HS183100*	183NQ100 MBR200100	100V	100V
	*Add suffix R fo	or Reverse Polarit	У

Electrical Characteristics

Maximum surge current IFSI Maximum repetitive reverse current IR(C	 V) 180 Amps M 2500 Amps OV) 2 Amps 0.91 Volts 100mA 5mA 4800pF 	^{T}C = 116°C, Square wave, $^{R}\Theta JC$ = 0.32°C/W 8.3ms, half sine, ^{T}J = 175°C f = 1 KHZ, 1µs square wave, ^{T}J = 25°C ^{I}FM = 180A: ^{T}J = 25°C* ^{V}RRM , ^{T}J = 125°C* ^{V}RRM , ^{T}J = 25°C ^{V}R = 5.0V, ^{T}J = 25°C, f = 1MHz
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*Pulse test: Pulse width 300µsec, Duty cycle 2%

Thermal and Mechanical Characteristics

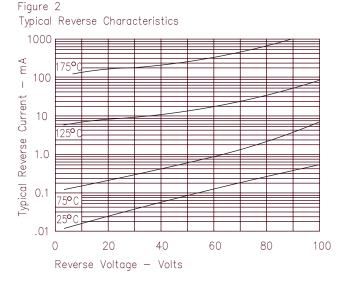
Storage temp range Operating junction temp range Max thermal resistance Typical thermal resistance (greased) Terminal Torque Mounting Base Torque Weight	TSTG TJ R OJC R OCS	-55°C to 175°C -55°C to 175°C 0.32°C/W junction to case 0.12°C/W case to sink 35-40 inch pounds 20-25 inch pounds 1.1 ounces (32 grams) typical
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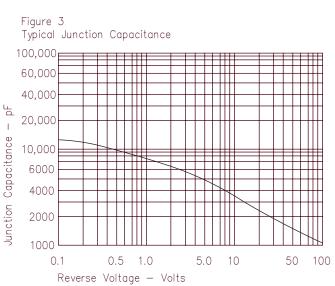


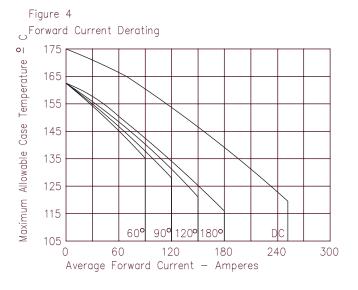
HS18380-HS183100

1.4

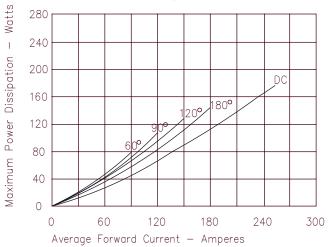
Figure 1 Typical Forward Characteristics 10000 8000 6000 4000 2000 1000 800 600 400 200 - Amperes 100 80 Current 60 Forward 40 Instantaneous 20 10 .2 0 .4 .6 .8 1.0 1.2 Instantaneous Forward Voltage - Volts













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