

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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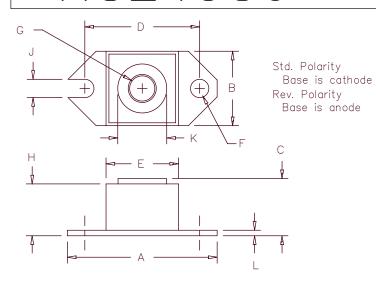
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







240 Amp Schottky Rectifier HS24380 — HS243100



Dim.	n. Inches Millimeter				
	Minimum	Maximum	Minimum	Maximum	Notes
A B C D E F	1.52 .725 .605 1.182 .745	1.56 .775 .625 1.192 .755 .160	38.61 18.42 15.37 30.02 18.92 3.86	39.62 19.69 15.88 30.28 19.18 4.06	Sq. Dia.
H J K L	.525 .156 .495 .120	.580 .160 .505 .130	13.34 3.96 12.57 3.05	14.73 4.06 12.83 3.30	Dia.

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

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

Electrical Characteristics

F(AV) 240 Amps Average forward current Maximum surge current FSM 3300 Amps Maximum repetitive reverse current R(OV) 2 Amps Max peak forward voltage VFM 0.72 Volts V_{FM} Max peak forward voltage 0.86 Volts Max peak reverse current ^IRM 200mA Max peak reverse current 1_{RM} 8.0mA Typical junction capacitance C_{J} 6400pF

 ^{T}C = 122°C, Square wave, $^{R}\Theta$ JC = .24°C/W 8.3ms, half sine, ^{T}J = 175°C f = 1 KHZ, 25°C ^{I}FM = 240A: ^{T}J = 175°C*

TFM = 240A: TJ = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TC = 25°C

*Pulse test: Pulse width 300 µsec, 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 0.24°C/W Junction to case

0.24°C/W Junction to cas 0.12°C/W Case to sink 35—40 inch pounds 20—25 inch pounds

1.1 ounces (32 grams) typical



HS24380 - HS243100

Figure 1 Typical Forward Characteristics

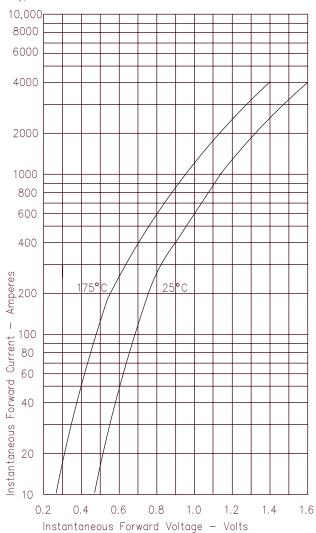


Figure 3 Typical Junction Capacitance

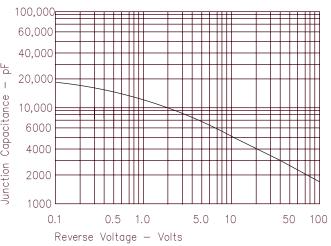


Figure 4



Figure 2 Typical Reverse Characteristics

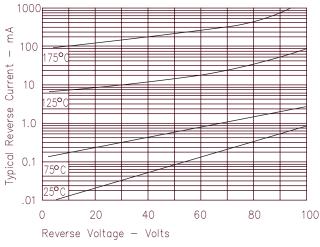
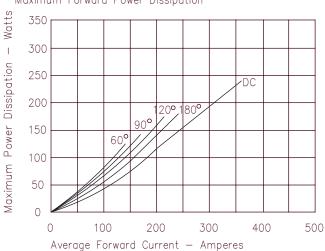


Figure 5
Maximum Forward Power Dissipation





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