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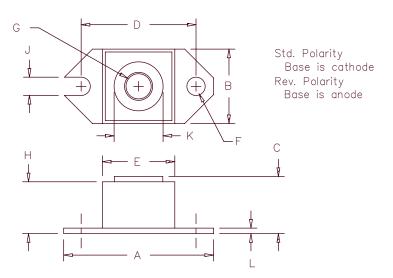
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







180 Amp Schottky Rectifier HS18135—HS18145



Dim	m. Inches Millimeter				
	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	
Ε	.745	.755	18.92	19.18	Sq.
F	.152	.160	3.86	4.06	Dia.
G	G 1/4-20 UNC-2B				
Н	.525	.580	13.34	14.73	
J	.156	.160	3.96	4.06	
K	.495	.505	12.57	12.83	Dia.
L	.120	.130	3.05	3.30	

HALF-PAK

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
HS18135*	181NQ035	35V	35V
HS18140*	181NQ040	40V	40V
HS18145*	181NQ045	45V	45V
	* Add Suffix R	for Reverse Polari	ty

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- 175°C Junction Temperature
- VRRM 35-45 Volts
- Reverse Energy Tested
- ROHS Compliant

Electrical Characteristics

Average forward current
Maximum surge current
Maximum repetitive reverse current
Max peak forward voltage
Max peak reverse current
Max peak reverse current
Typical junction capacitance

F(AV) 180 Amps FSM 2500 Amps R(OV) 2 Amps VFM 0.70 Volts RM 150mA RM 4mA C,1 7500pF TC = 142°C, square wave, $R \Theta JC = 0.3$ °C/W 8.3ms, half sine, TJ = 175°C f = 1 kHz, 1us square wave, TJ = 25°C | FM = 180A: TJ = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C | VR = 5.0V, TJ = 25°C, f = 1MHz

*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)
Mounting Base Torque
Terminal Torque
Weight

TSTG TJ R OJC R OCS

-55°C to 175°C -55°C to 175°C 0.3°C/W junction to case 0.12°C/W case to sink 15-25 inch pounds 20-40 inch pounds 1.1 ounces (32 grams) typical



HS18135-HS18145

Figure 1 Typical Forward Characteristics

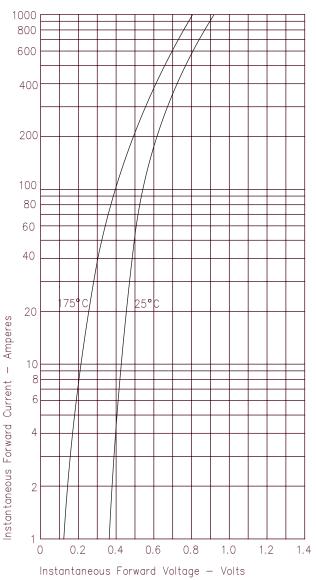


Figure 2 Typical Reverse Characteristics

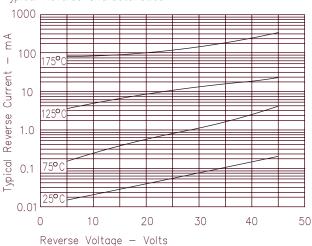


Figure 3
Typical Junction Capacitance

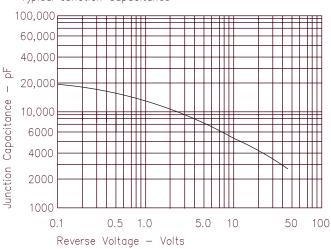


Figure 4
Forward Current Derating

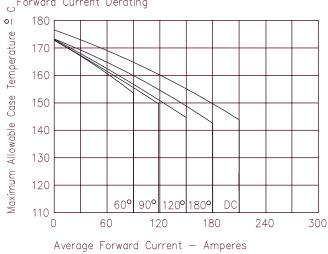


Figure 5
Maximum Forward Power Dissipation





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