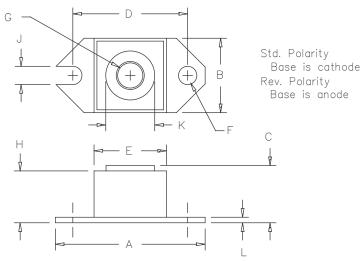
240 Amp Schottky Rectifier HS247180-HS247200



Dim. 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	
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	
К	.495	.505	12.57	12.83	Dia.
L	.120	.130	3.05	3.30	

Microsemi Catalog Number	Industry Part Number	Working Peak Repetitive Peak Reverse Voltage Reverse Voltage		 Schottky Barrier Rectifier Guard Ring Protection
HS247180*		180V	180V	● 240 Amperes 180-200 Volts
HS247200*		200V	200V	● 175°C Junction Temperature
				● Reverse Energy Tested
				● ROHS Compliant

*Add Suffix R for Reverse Polarity

Electrical Characteristics

Average forward current Maximum surge current Maximum repetitive reverse current Typical peak forward voltage Max peak forward voltage Typical peak reverse current Max peak reverse current Typical junction capacitance |F(AV) 240 Amps |FSM 3300 Amps |R(OV) 2 Amps VFM 0.65 Volts VFM 0.86 Volts |RM 150mA |RM 8.0mA CJ 6000pF TC = 118°C, Square wave, ReJC = .24°C/W 8.3ms, half sine, TJ = 175°C f = 1 KHZ, 25°C IFM = 240A: TJ = 175°C* IFM = 240A: TJ = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TC = 25°C

*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 ROJC ROCS	-55°C to 175°C -55°C to 175°C 0.21°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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HS247180-HS247200

Figure 1 Typical Forward Characteristics 10,000 5000 1000 500 125°C Amperes I 100 Instantaneous Forward Current 50 10 0.6 0.8 1.6 0.2 0.4 1.0 1.2 1.4 Instantaneous Forward Voltage -Volts

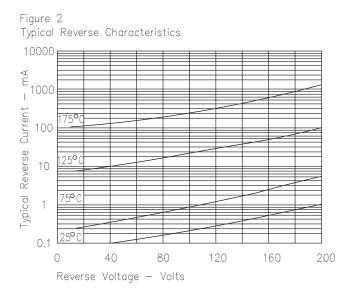
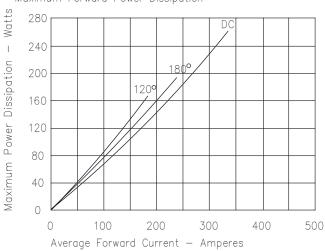


Figure 3 Typical Junction Capacitance 100,000_F 60,000 40,000 Ч 20,000 T Junction Capacitance M 10,000 6000 4000 2000 1000 0.1 0.5 1.0 5.0 10 50 100 Reverse Voltage - Volts Figure 4 Forward Current Derating 0| 180 Maximum Allowable Case Temperature 170 160 150 140 130 120 20**°** 800 110 100 300 400 500 0 200 Average Forward Current - Amperes







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