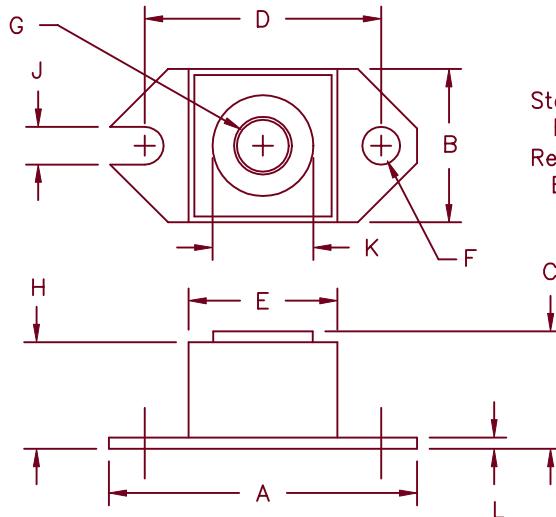


# 240 Amp Schottky Rectifier

## HS24230



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	
L	.120	.130	3.05	3.30	Dia.

Microsemi Catalog Number	Working Reverse Voltage	Peak Reverse Voltage
HS24230*	30V	30V

\*Add Suffix R for Reverse Polarity

- Schottky Barrier Rectifier
- Guard Ring Protection
- 240 Amperes/30 Volts
- 150°C Junction Temperature
- Reverse Energy Tested

### Electrical Characteristics

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

|F(AV) 240 Amps  
|FSM 3500 Amps  
|R(OV) 2 Amps  
VFM 0.49 Volts  
VFM 0.55 Volts  
|RM 3 Amp  
|RM 12mA  
CJ 10500pF

T<sub>C</sub> = 84°C, Square wave, R<sub>θJC</sub> = .24°C/W  
8.3ms, half sine, T<sub>J</sub> = 150°C  
f = 1 KHZ, 25°C  
|FM = 240A: T<sub>J</sub> = 125°C\*  
|FM = 240A: T<sub>J</sub> = 25°C\*  
V<sub>RRM</sub>, T<sub>J</sub> = 125°C\*  
V<sub>RRM</sub>, T<sub>J</sub> = 25°C  
VR = 5.0V, T<sub>C</sub> = 25°C

\*Pulse test: Pulse width 300 usec, 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

T<sub>STG</sub>  
T<sub>J</sub>  
R<sub>θJC</sub>  
R<sub>θCS</sub>

-55°C to 150°C  
-55°C to 150°C  
0.24°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

# HS24230

Figure 1  
Typical Forward Characteristics

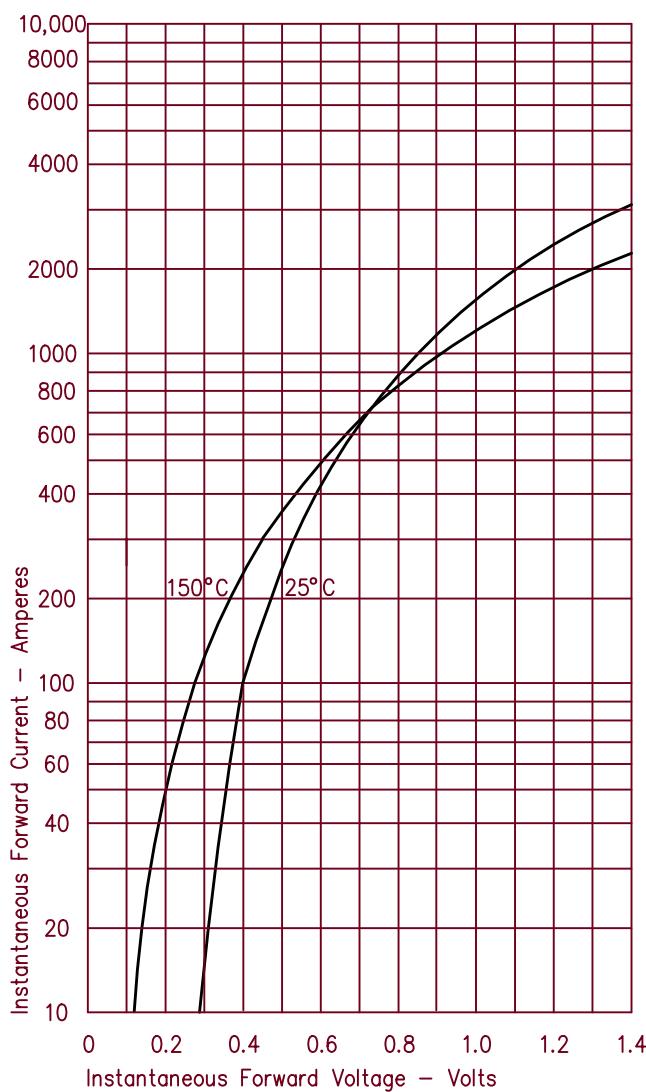


Figure 3  
Typical Junction Capacitance

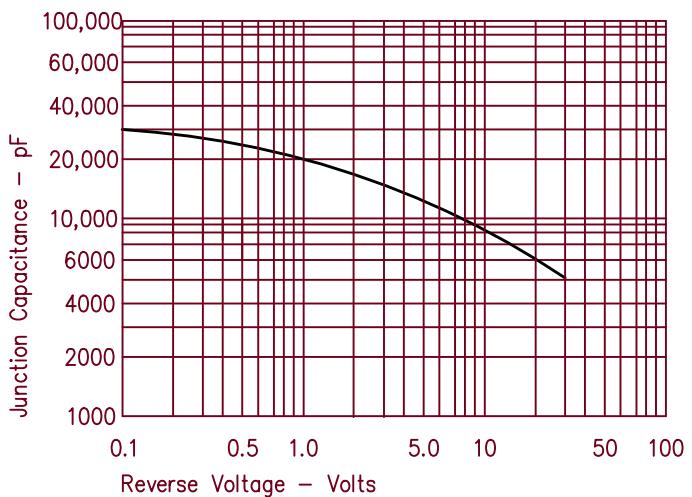


Figure 4  
Forward Current Derating

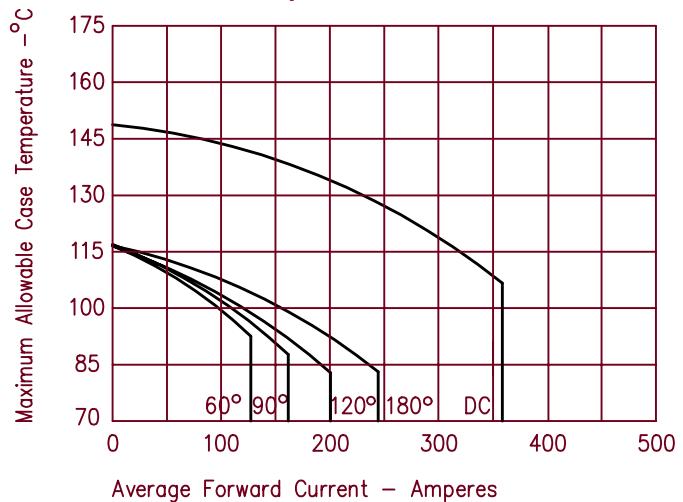


Figure 2  
Typical Reverse Characteristics

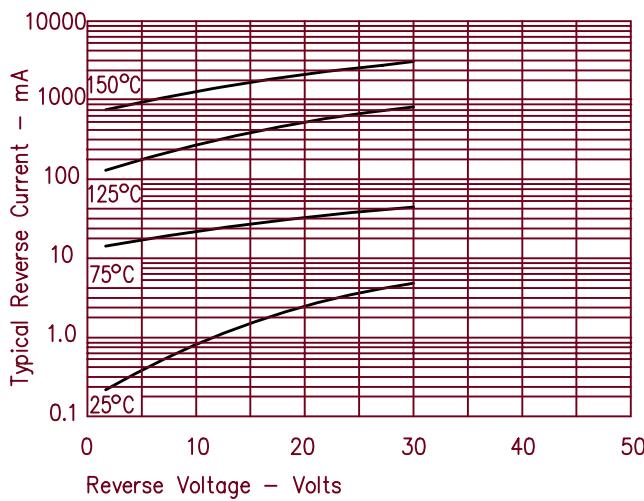


Figure 5  
Maximum Forward Power Dissipation

