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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!



## Contact us

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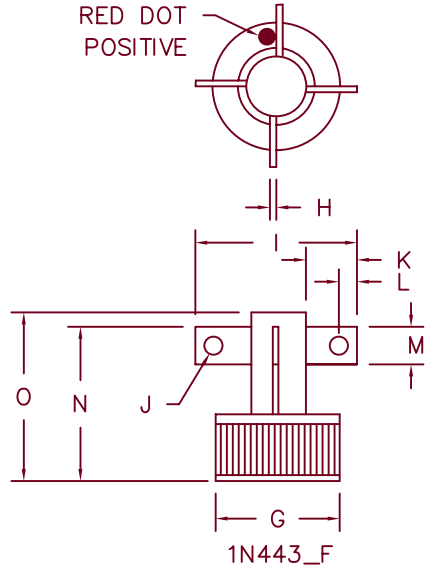
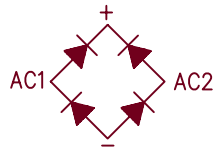
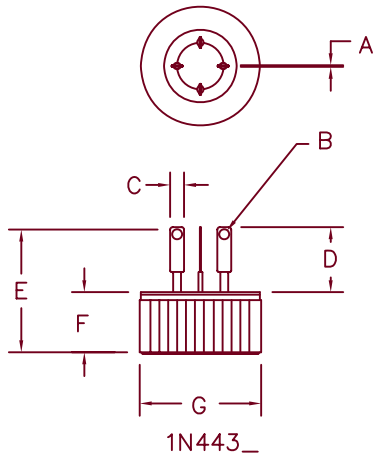
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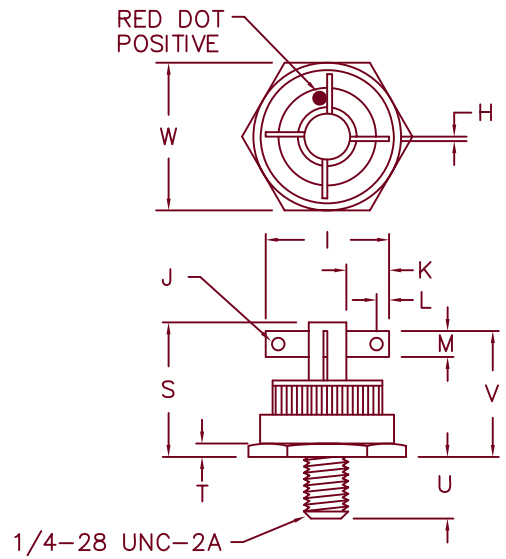
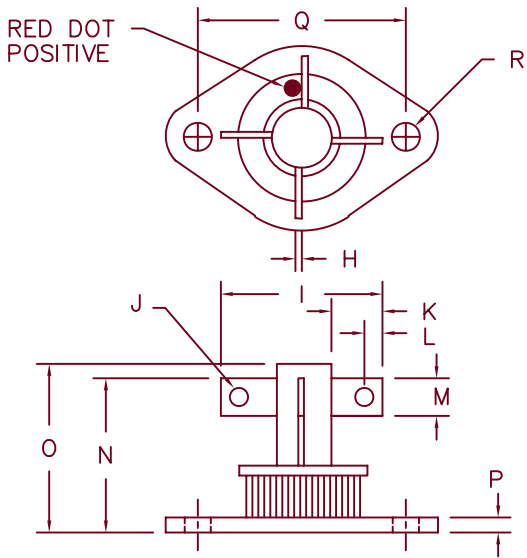


# Single Phase Bridge Rectifier

## 1N4436 — 1N4438



Note: Electrically Isolated



1N443\_FT ← For Parts w/o Flags Delete F → 1N443\_FS

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.018	.028	0.46	0.71	
B	---	.070 typ.	---	---	Dia.
C	---	.125 typ.	---	---	
D	.290	.330	7.37	8.38	
E	---	.825	---	20.95	
F	.390	.420	9.90	10.67	
G	.751	.755	19.07	19.18	
H	---	.032 typ.	---	---	
I	---	1.0	---	25.4	
J	---	.11 typ.	---	---	Dia.
K	.250	---	6.35	---	

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
L	---	.125 Typ.	---	---	
M	---	.187 Typ.	---	---	
N	---	.830	---	21.08	
O	---	.930	---	23.62	
P	---	.135	---	3.43	
Q	1.177	1.197	29.90	30.40	
R	.151	.161	3.84	4.10	Dia.
S	---	1.20	---	30.48	
T	---	.125 typ.	---	---	
U	.340	.400	8.64	10.16	
V	---	1.10	---	27.94	
W	---	.875	---	22.83	



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05-01-07 Rev. 3

# 1N4436 – 1N4438

Microsemi  
Catalog Number

1N4436  
1N4437  
1N4438

Repetitive Peak  
Reverse Voltage

200V  
400V  
600V

- Glass Passivated Die
- Hermetically sealed
- Soft Recovery
- 160°C Junction temperature
- 2000VDC Isolation voltage

## Electrical Characteristics

DC forward current output  
Maximum Surge Current  
Maximum I<sup>2</sup>t For Fusing  
Max. Peak Forward Voltage per leg  
Max. Peak Reverse Current  
Max. Peak Reverse Current

I<sub>o</sub> 10A  
I<sub>FSM</sub> 100 Amps  
I<sup>2</sup>t 40A<sup>2</sup>s  
V<sub>FM</sub> 1.2 Volts  
I<sub>RM</sub> 10 μA  
I<sub>RM</sub> 1.0 mA

T<sub>C</sub> = 100°C, R<sub>θJC</sub> = 1.5°C/W

I<sub>FM</sub> = 10A: T<sub>J</sub> = 25 °C  
V<sub>RRM</sub>, T<sub>J</sub> = 25°C  
V<sub>RRM</sub>, T<sub>J</sub> = 150°C

## Thermal and Mechanical Characteristics

Storage temp range  
Max thermal resistance

T<sub>STG</sub>, T<sub>OP</sub>  
R<sub>θJC</sub>

-65°C to +160°C  
1.5°C/W junction to case

# 1N4436 - 1N4438

Figure 1  
Typical Forward Characteristics

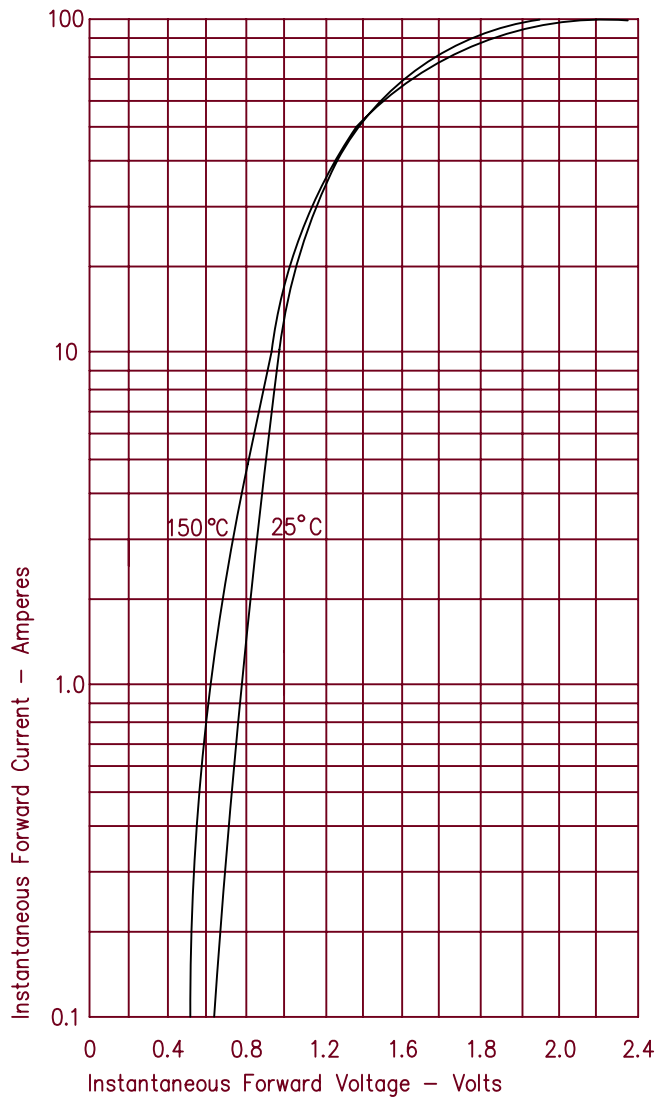


Figure 3  
Forward Current Derating

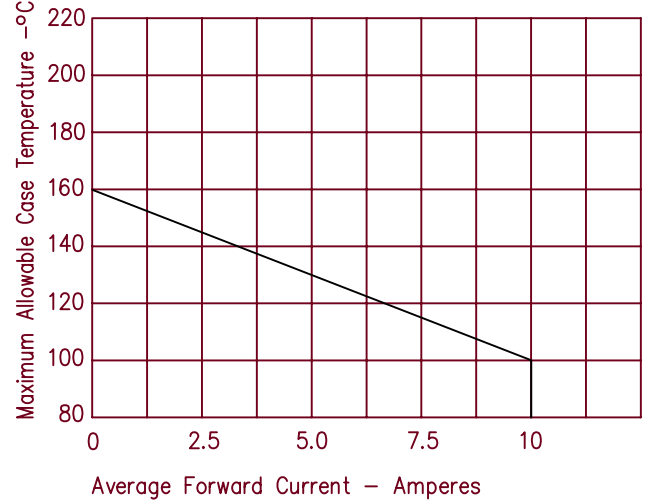


Figure 2  
Typical Reverse Characteristics

