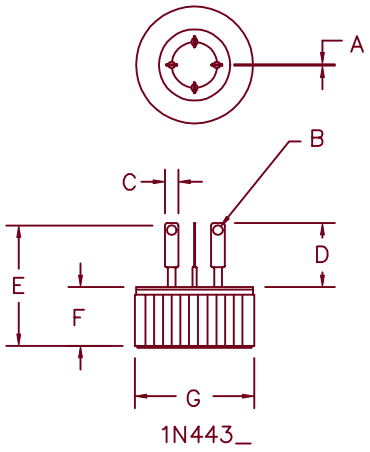
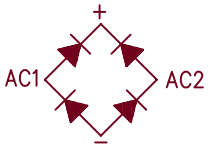
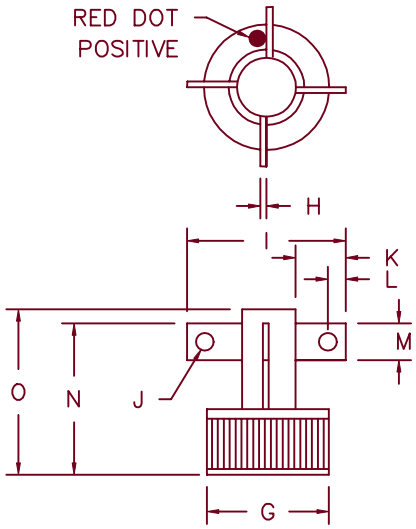
Single Phase Bridge Rectifier
1N4436 – 1N4438



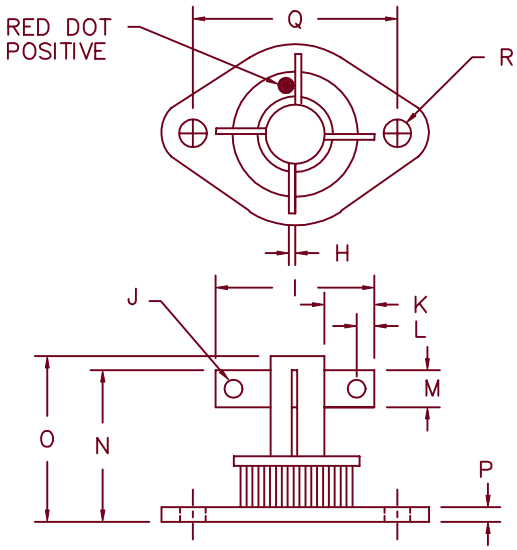
1N443_

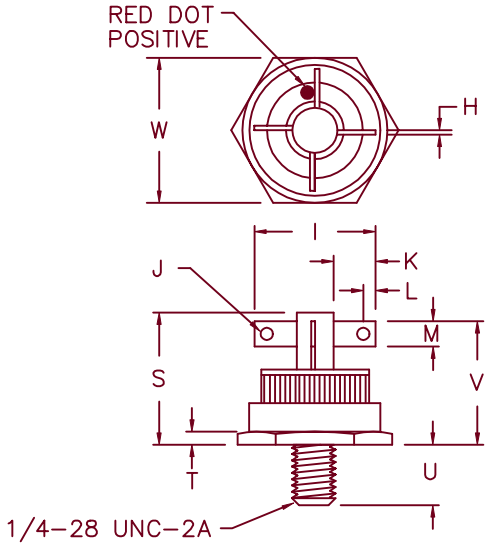


Note: Electrically Isolated



1N443_F





1N443_FT ← For Parts w/o Flags Delete F → 1N443_FS

Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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		
	Minimum	Maximum	Minimum	Maximum	Notes
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	

9–27–02 Rev. 2

COLORADO Microsemi
800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469–2161
FAX: (303) 466–3775
www.microsemi.com

1N4436 – 1N4438

Microsemi Catalog Number	Repetitive Peak Reverse Voltage
1N4436	200V
1N4437	400V
1N4438	600V

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

Electrical Characteristics

DC forward current output	I_o 10A	T_C = 100°C, $R_{\Theta JC}$ = 1.5°C/W
Maximum Surge Current	I_{FSM} 100 Amps	
Maximum I^2t For Fusing	I^2t 40A^2s	
Max. Peak Forward Voltage per leg	V_{FM} 1.2 Volts	I_{FM} = 10A: T_J = 25°C
Max. Peak Reverse Current	I_{RM} 10 µA	V_{RRM}, T_J = 25°C
Max. Peak Reverse Current	I_{RM} 1.0 mA	V_{RRM}, T_J = 150°C

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}, T_{OP}	−65°C to +160°C
Max thermal resistance	$R_{\Theta JC}$	1.5°C/W junction to case

1N4436–1N4438

Figure 1
Typical Forward Characteristics

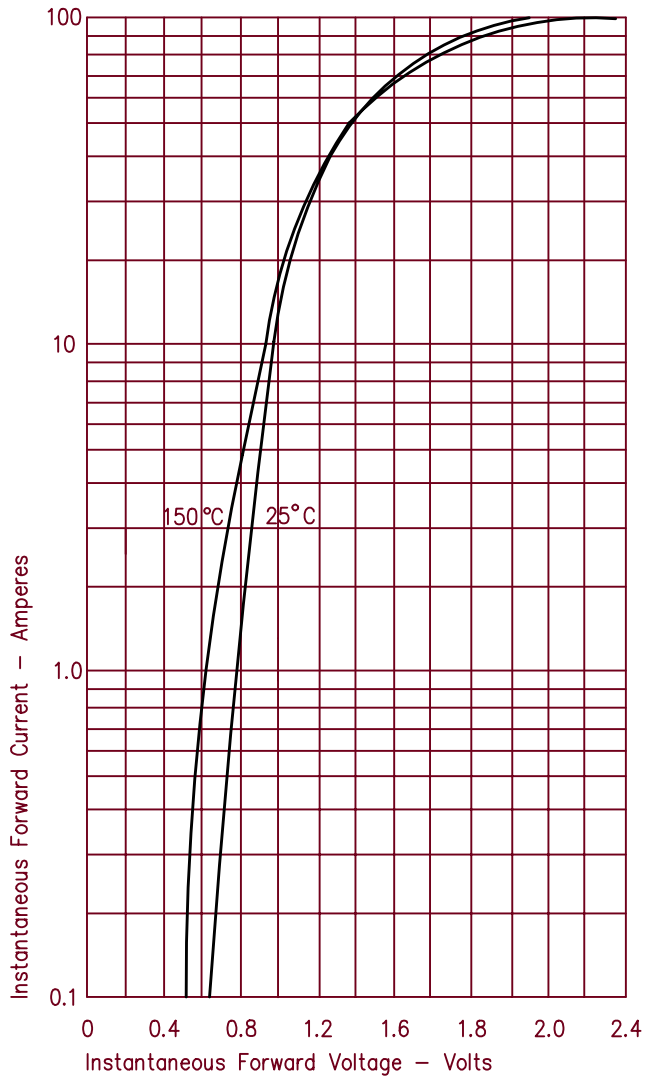


Figure 2
Typical Reverse Characteristics

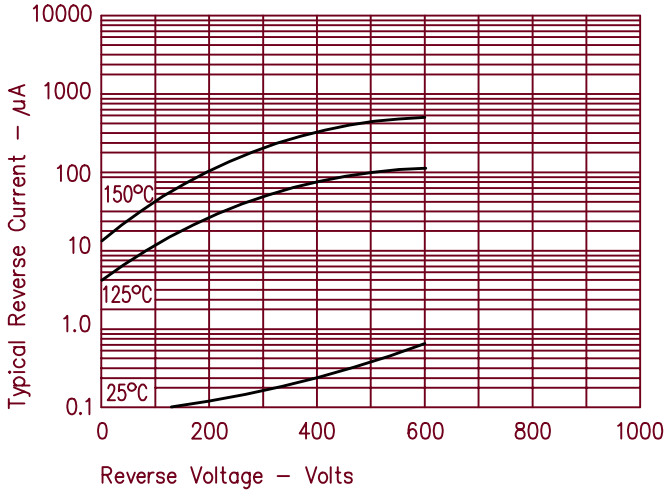
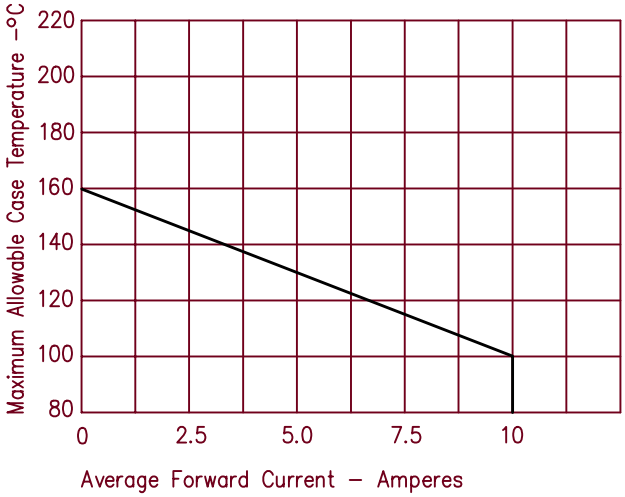


Figure 3
Forward Current Derating



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