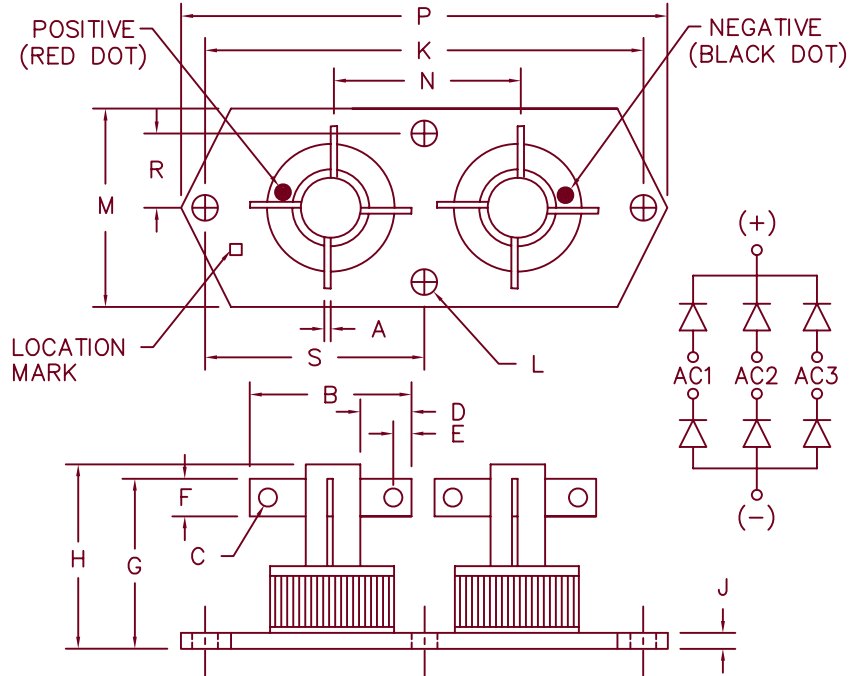


3 Phase Full Wave Bridge Rectifier

MTH200 — MTH800



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	.032	---	0.81	
B	---	1.00	---	25.4	
C	---	.110	---	2.79	Dia.
D	.250	---	6.35	---	
E	---	.125	---	3.18	
F	---	.187	---	4.75	
G	---	.830	---	21.08	
H	---	.930	---	23.62	
J	---	.135	---	3.43	
K	---	2.250	---	57.15	
L	---	.156	---	3.96	Dia.
M	---	1.000	---	25.40	
N	---	1.000	---	25.40	
P	---	2.570	---	66.05	
R	---	.375	---	9.53	
S	---	1.125	---	28.58	

Note: Electrically Isolated

Microsemi
Catalog Number

MTH200
MTH400
MTH600
MTH800

Repetitive Peak
Reverse Voltage

200V
400V
600V
800V

- Glass Passivated Die
- Hermetically sealed
- Soft Recovery
- 175°C Junction temperature
- 2000VDC Isolation voltage

Electrical Characteristics

DC output current
Maximum Surge Current per leg
Maximum I^2t For Fusing
Max. Peak Forward Voltage per leg
Max. Peak Reverse Current per leg
Max. Peak Reverse Current per leg

I_o 25A
 I_{FSM} 150 Amps
 I^2t 40A²s
 V_{FM} 1.5 Volts
 I_{RM} 10 μ A
 I_{RM} 1.0 mA

$T_C = 120^\circ\text{C}$, $R_{\theta JC} = 1.0^\circ\text{C/W}$
8.3mS, half sine, $T_C = 100^\circ\text{C}$

$I_{FM} = 25\text{A}$; $T_J = 25^\circ\text{C}$
 V_{RRM} , $T_J = 25^\circ\text{C}$
 V_{RRM} , $T_J = 150^\circ\text{C}$

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temperature range
Max thermal resistance per package

T_{STG}
 T_{OP}
 $R_{\theta JC}$

-65°C to 175°C
-65°C to 175°C
1.0°C/W



6 Lake Street
Lawrence, MA 01841
PH: (978) 620-2600
FAX: (978) 689-0803
www.microsemi.com

05-01-07 Rev. 2

MTH200 — MTH800

Figure 1
Typical Forward Characteristics — Per Diode

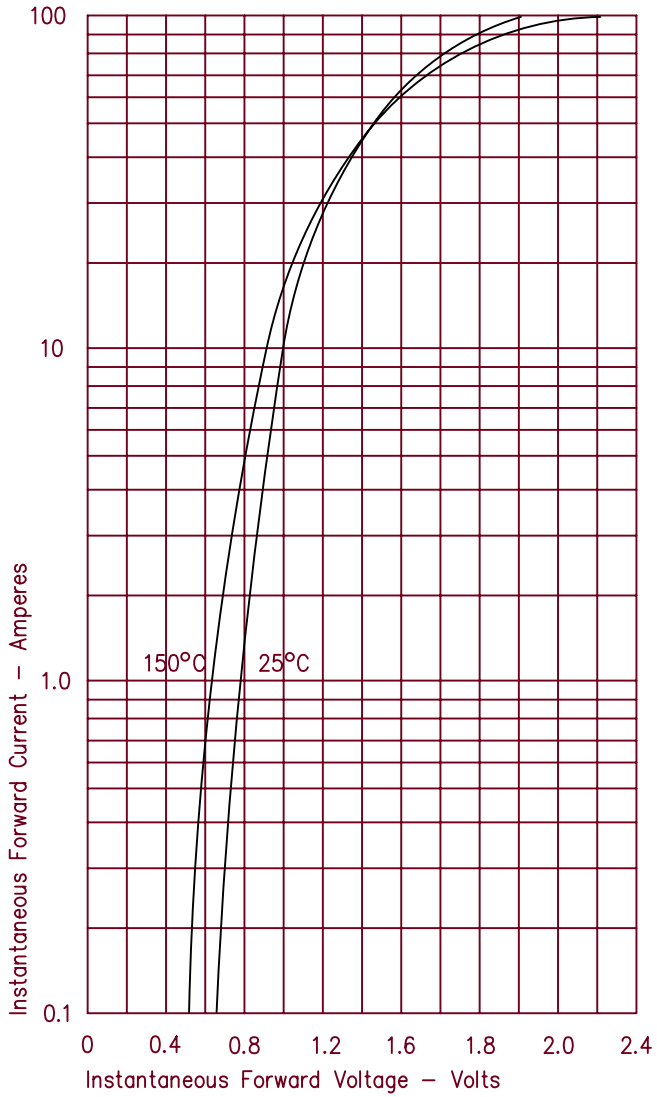


Figure 3
Forward Current Derating

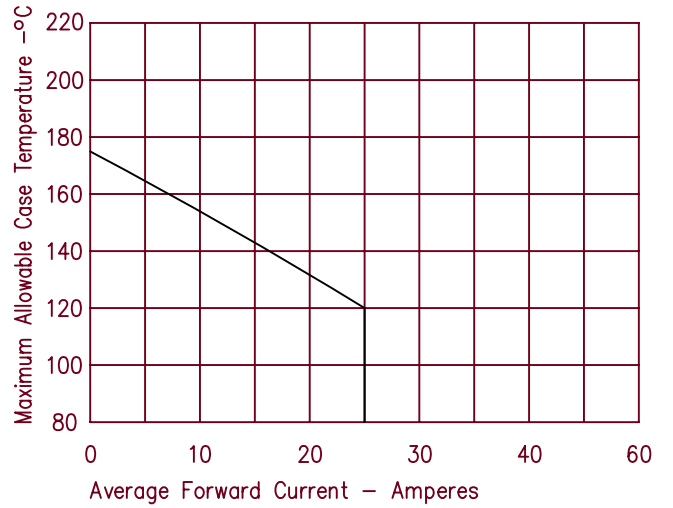


Figure 2
Typical Reverse Characteristics

