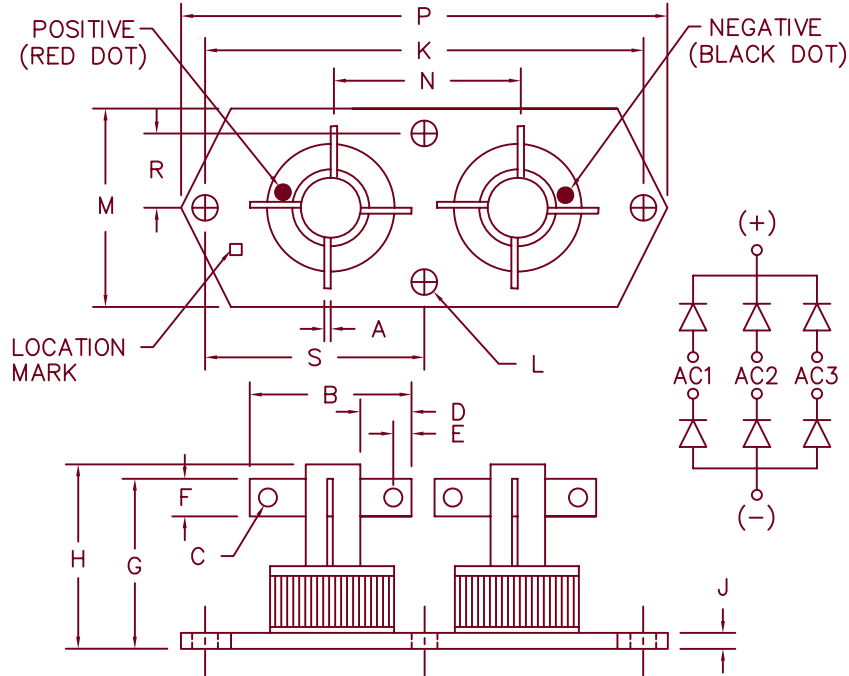


# 3 Phase Full Wave Bridge Rectifier MTH200 — MTH800



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  
 $I^2t$  40A<sup>2</sup>s  
 $V_{FM}$  1.5 Volts  
 $I_{RM}$  10  $\mu$ 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,  $T_C = 100^\circ\text{C}$

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

## 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](http://www.microsemi.com)

05-01-07 Rev. 2

# MTH200 — MTH800

Figure 1  
Typical Forward Characteristics — Per Diode

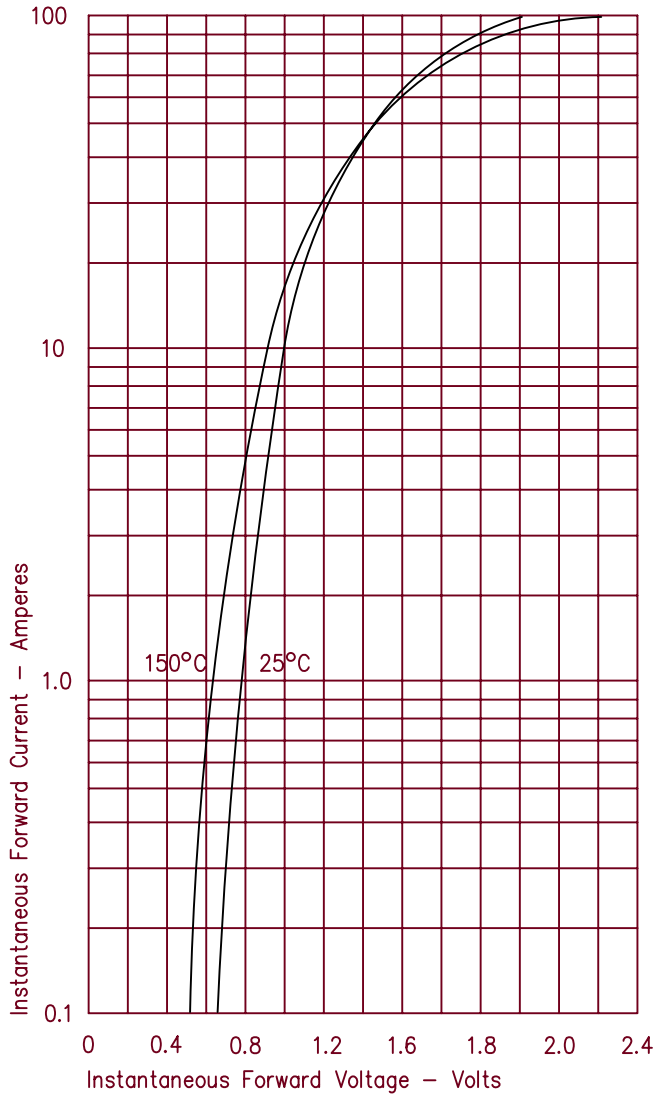


Figure 3  
Forward Current Derating

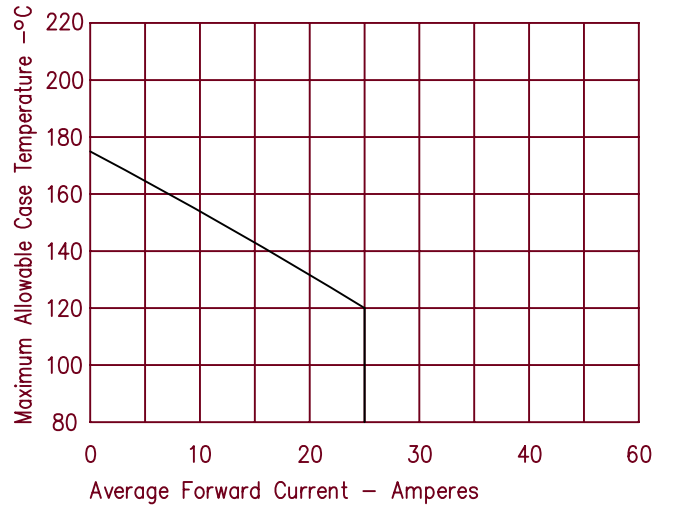


Figure 2  
Typical Reverse Characteristics

