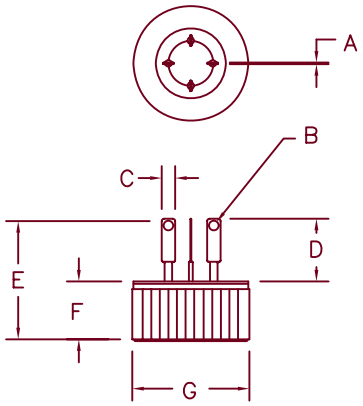
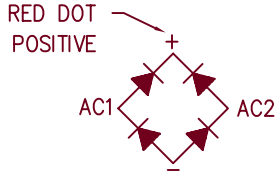
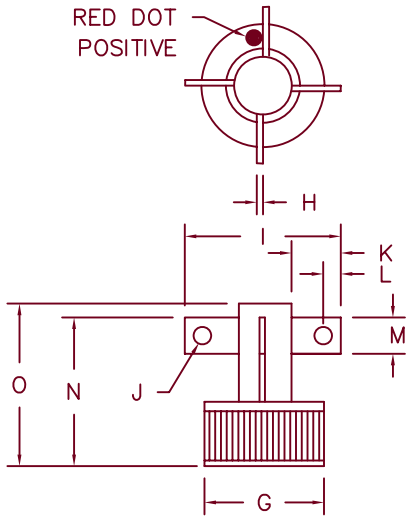
25Amp Fast Recovery Full Wave Bridge Rectifier

MY100X – MY400X

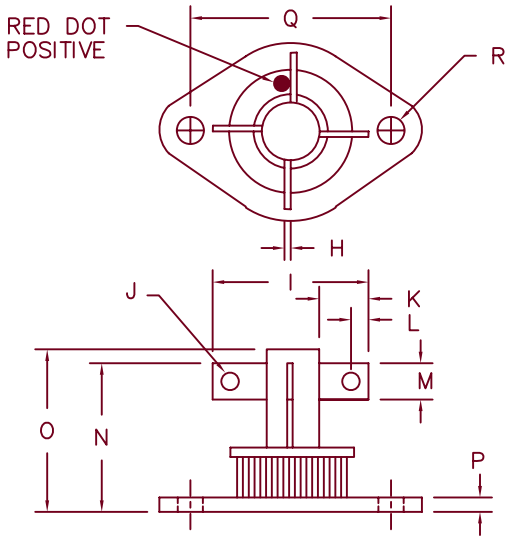




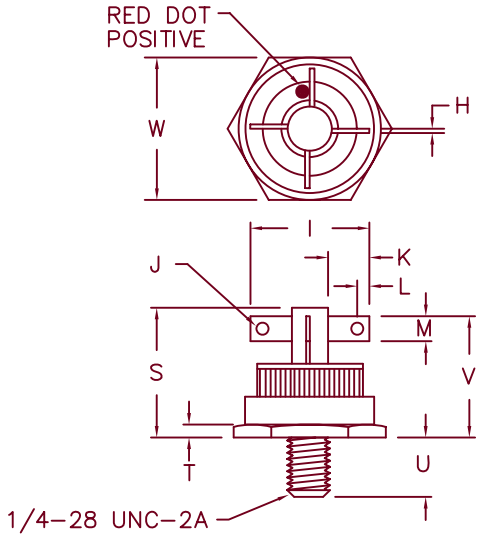
Note: Electrically Isolated



MY100X



MY100XT



MY100XS

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	

LAWRENCE Microsemi

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

04–18–07 Rev. 1

MY100X – MY400X

Microsemi Catalog Number	Repetitive Peak Reverse Voltage
MY100X	100V
MY200X	200V
MY300X	300V
MY400X	400V

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

Electrical Characteristics

DC forward current output	I_o 25A	T_C = 110°C
Maximum Surge Current	I_{FSM} 150 Amps	8.3ms, half sine, T_C = 110°C
Maximum I^2t For Fusing	I^2t 93A^2s	
Max. Peak Forward Voltage per leg	V_{FM} 1.3 Volts	I_{FM} = 25A: T_J = 25°C
Max. Peak Reverse Current	I_{RM} 10 µA	V_{RM} = 200V, T_J = 25°C
Max. Peak Reverse Current	I_{RM} 3 mA	V_{RM} = 200V, T_J = 150°C
Maximum Reverse Recovery Time	t_{rr} 200 nS	I_F = 1A, I_R = 2A, I_{REC} = 0.5A

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	−65°C to +175°C
Operating junction temperature range	T_{OP}	−65°C to +175°C
Max thermal resistance per package	$R_{\Theta JC}$	1.0°C/W

MY100X – MY400X

Figure 1
Typical Forward Characteristics

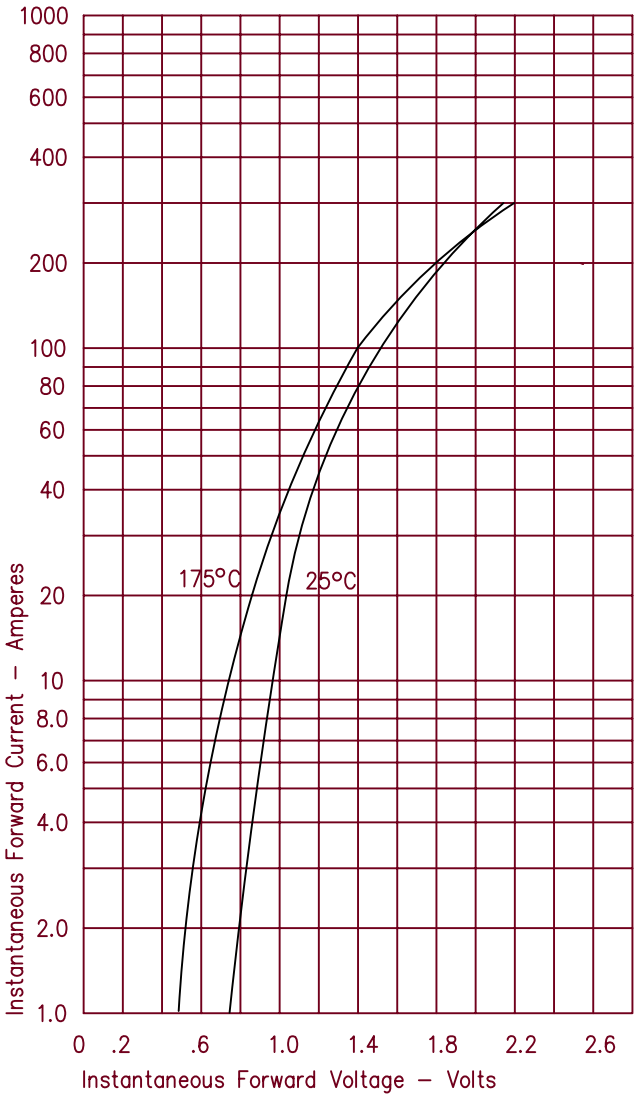


Figure 2
Typical Reverse Characteristics

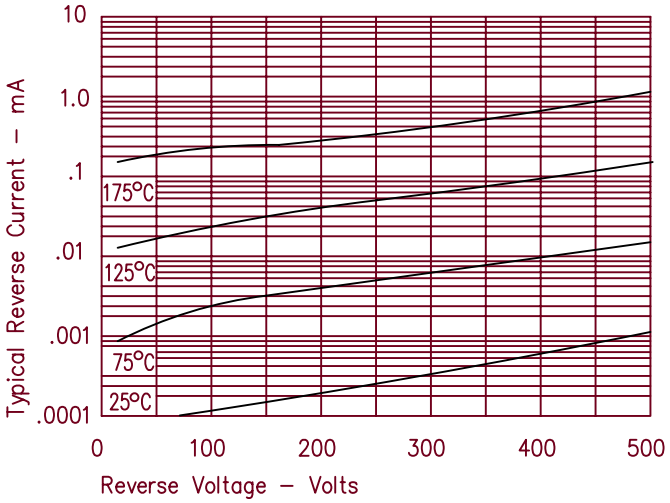


Figure 3
Forward Current Derating