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## High Voltage Silicon Rectifier

Fast Recovery, Miniature  
 MX15-200, MA15-120

**FEATURES:**

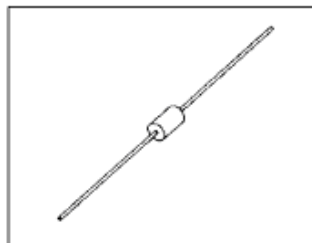
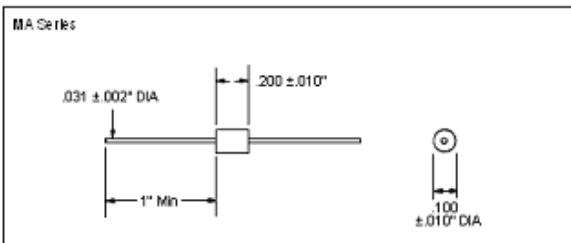
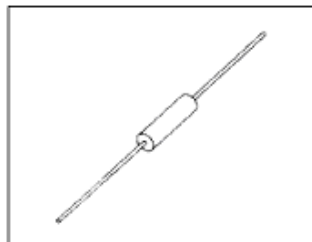
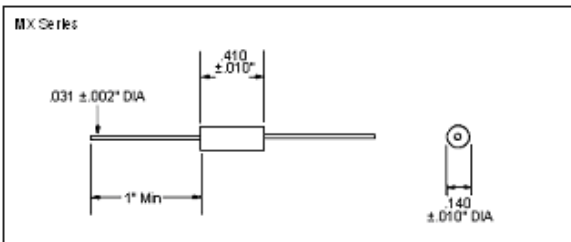
- PIV: 1.5KV to 20kV
- 250 nS Reverse Recovery
- High Surge Current Ratings
- Low Reverse Leakage, Corona Free

The MX/MA silicon rectifier series combine a medium rectified current capability in a miniature package for commercial, industrial and military applications.

ELECTRICAL SPECIFICATIONS at 25°C unless otherwise noted							MAXIMUM RATINGS					
Part Number		Peak Inverse Voltage <sub>1</sub>	Maximum Reverse Current @PIV		Max Forward Voltage @ I <sub>O</sub>	Max Reverse Recovery Time <sub>2</sub>	Maximum Average Rectified Current <sub>3</sub>			Maximum Recurrent Peak Surge	Max One Cycle Surge 8.3mS	
		PIV	I <sub>R</sub>		V <sub>F</sub>	T <sub>RR</sub>	I <sub>O</sub>			I <sub>F</sub>	I <sub>F(surge)</sub>	
		V	25°C	100°C	25°C	nS	50°C	100°C	125°C	A	A	
			μA	μA	V		mA					
MX15	MA15	1500	0.1	10	5	250(A)	80	40	20	0.8	8	
MX20	MA20	2000	0.1	10	5	250(A)	80	40	20	0.8	8	
MX25	MA25	2500	0.1	10	5	250(A)	80	40	20	0.8	8	
MX30	MA30	3000	0.1	10	8	250(B)	40	20	10	0.4	4	
MX40	MA40	4000	0.1	10	8	250(B)	40	20	10	0.4	4	
MX50	MA50	5000	0.1	10	8	250(B)	40	20	10	0.4	4	
MX60	MA60	6000	0.1	10	12	250(C)	25	12.5	6.25	0.2	2	
MX80	MA80	8000	0.1	10	12	250(C)	25	12.5	6.25	0.2	2	
MX100	MA100	10000	0.1	10	12	250(C)	25	12.5	6.25	0.2	2	
MX120	MA120	12000	0.1	10	24	250(D)	10	5	2.5	0.1	1	
MX150		15000	0.1	10	24	250(D)	10	5	2.5	0.1	1	
MX200		20000	0.1	10	24	250(D)	10	5	2.5	0.1	1	

<sub>1</sub> Operation and testing of devices over 10,000V/inch may require re-encapsulation or immersion in a suitable dielectric material. <sub>3</sub> The stated, AVERAGE RECTIFIED CURRENT ratings require no heat sinking, special mounting or forced air across the body of the device.

**NOTE:** Maximum lead temperature for soldering is 250°C 3/8" from case for 5 seconds.



<sub>2</sub> Reverse Recovery Test Conditions

Test	I <sub>F</sub> mA	I <sub>R</sub> mA	I <sub>RR</sub> mA
A	40	80	20
B	20	40	10
C	12.5	25	6.25
D	5	10	2.5

Operating Temperature Range.....	-55°C to +150°C
Storage Temperature Range.....	-65°C to +175°C

Specifications subject to change without notice to ensure a better product  
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